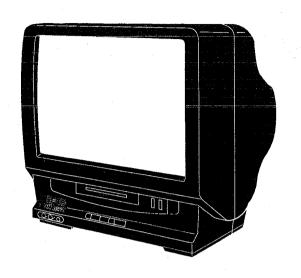
Service Manual



COMBINATION-VCR

Panasonic Omnivision



PV-M1324 PV-M1324W PV-M2024 PV-M2044

	TEM	SPECIFICATION	1	2	3	ITE	M	SPECIFICATION	1	2	3
		Head: 2 rotary heads helical scanning system 4 rotary heads helical scanning system	0	0	0		Tape	SP: 1-5/16 i.p.s (33.35mm/sec), LP: 21/32 i.p.s (16.67mm/sec), SLP: 7/16 i.p.s (11.12mm/sec)			0
	Video	nput Level : VIDEO IN Jack (Phono type) 1.0 Vp-p 75Ω unbalanced Dutput Level : VIDEO OUT Jack (Phono type) 1.0 Vp-p 75Ω unbalanced Signal-to-Noise Ratio :SP : more than 43dB	0 - 0	Speed Record/Playback Time: 8 Hrs with 160min. type tape used in S	Record/Playback Time: 8 Hrs with 160min. type tape used in SLP mode FF/REW Time: Less 5min. (120min. type tape)						
		LP/SLP: more than 41dB Horizontal Resolution: Color/Monochrome: more than 230 lines	0	000			Tape Format	Tape width 1/2" (12.7mm) high density tape	0	0	0
		Head: Normal Mono: 1 stationary head	0		1	DIODI AV	Picture	13 inch measured diagonal 90° deflection 20 inch measured diagonal 90° deflection		_	
		Input Level : AUDIO IN Jack (Phono type) - 10dBV 50kΩ unbalanced		0		DISPLAY	Tube			0	0
		Output Level : AUDIO OUT Jack (Phono type) - 8dBV 600Ω unbalanced	_	_	0			Source: 120V AC ±10% 60Hz ±0.5%	0	0	0
VC	R Audio	Frequency Response: Normal Mono : SP : 100Hz ~ 8kHz LP : 100Hz ~ 6kHz SLP : 100Hz ~ 5kHz	0	0	0	Power	Power	Consumption : 69 watts Consumption : 112 watts	0	0	0
		Signal-to-Noise Ratio :Normal Mono : SP : more than 42dB LP/SLP : more than 40dB	0	0	0			EIA Standard (525 lines, 60 fields) NTSC Color Signal	0	0	0
		Wow and Flutter: Normal Mono: SP: Less than 0.2% WRMS LP: Less than 0.3% WRMS				GENERAL	System		-		\sqcup
		SLP : Less than 0.4% WRMS					Operating Condition	41°F(5°C) ~ 104°F(40°C) (Temperature) 10% ~ 75% (Humidity)	0	0	0
	T	Broadcast Channels : VHF 2 ~ 13, UHF 14 ~ 69 CATV Channels : Midband A through I (14 ~ 22) : Superband J through W (23 ~ 36)					Dimension	14-13/16"(376mm) (W) x 15-7/8"(403mm)(H) x 15-1/8"(384mm) (D) 21-1/8"(536mm) (W) x 21-1/4"(540mm)(H) x 19-3/16"(487mm) (D)	0	!	0
	Tune	: Hyperband AA ~ EEE (37 ~ 64) : Lowband A-5 ~ A-1 (95 ~ 99) : Special CATV channel 5A (01) : Ultraband 65 ~ 94, 100 ~ 125	0	0	0		Weight	Approx. 29.1lbs (13.2kg) Approx. 52.9lbs (24kg)	0		0

- 1. PV-M1324/PV-M1324W
- 2. PV-M2024
- 3. PV-M2044

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Panasonic_®

Matsushita Services Company Division of Matsushita Electric Corporation of America 50 Meadowland Parkway, Secaucus, New Jersey 07094 Matsushita Electric of Canada Limited 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3

Panasonic Company (West) of America. Division of Matsushita Electric Corporation of America 6550 Katella Ave. Cypress. CA 90630 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. San Gabriel Industrial Park 65th Infantry Ave. KM.9.5 Carolina, P.R.00630

Summary Adjustment Procedures Schematic Diagrams Circuit Board Diagrams Exploded Views Replacement Parts List Block Diagrams

MODEL	HEAD
PV-M1324	2
PV-M1324W	2
PV-M2024	2
PV-M2044	4

TABLE OF CONTENTS

	Safety Precautions1-1	Head Amp Schematic Diagram	3-33
	Prevention of ESD to ES Devices1-2	TV Main/TV Power/CRT Schematic Diagram	3-39
	X-Radiation1-3	Interconnection Schematic Diagram	3-49
I.	SUMMARY	IV. CIRCUIT BOARD DIAGRAMS	
	A. Basic Operations1-4	Power Supply Ass'y	4-1
	B. Service Notes and Cautions1-6	Capstan Motor Drive C.B.A.	4-1
	C. IC, Transistor and Chip Part Information 1-16	Head Amp Ass'y	4-2
	How to read the identification mark	CCV C.B.A	4-4
	of chip components1-16	Main (Power Supply/Signal Process/Audio	
	How to read the values of the cylindrical	/System Control/Servo/Timer) C.B.A	4-5
	type chip components1-16	Operation I/II C.B.A.	
		TV Main C.B.A	
ı.	ADJUSTMENT PROCEDURES	TV Power C.B.A	4-15
	A. Mechanical Adjustment Procedures2-1	CRT C.B.A	
	Disassembly of Cabinet Parts2-1	Waveform Photograph	
	Procedure for Cleaning	Voltage Chart	4-21
	Upper Cylinder Unit2-6		
	3. Adjustment Procedures2-6	V. EXPLODED VIEWS	
	B. Service Fixtures and Tools2-30	1. Transport Section	
,	C. Electrical Adjustment Procedures2-31	2. Moving Mechanism Section	
	1. Test Equipment2-31	Cassette Up Mechanism Section	
	How to Read the Adjustment	4. Chassis Frame Section	5-4
	Procedures2-31	Packing Parts	
	3. Adjustment Procedures2-32	and Accessories Section	5-6
	D. Location of Test Points		
	and Adjustment Points2-42	VI. REPLACEMENT PARTS LIST	
	A Company of the Comp	Mechanical Replacement	
Ш.	SCHEMATIC DIAGRAMS	Parts List	6-1
	Schematic and C.B.A. Diagrams Notes3-1	Electrical Replacement	
	Power Supply Schematic Diagram3-2	Parts List	6-4
	Main I (Power Supply/System Control/Servo)		
	Schematic Diagram3-5	VII. BLOCK DIAGRAMS	
	Main II (Signal Process/Audio)	Overall Block Diagram	
	Schematic Diagram3-9	Power Supply Block Diagram	7-2
	Main III (Timer)	Video/Normal Audio Block Diagram	7-7
	Schematic Diagram3-13	System Control Block Diagram	7-12
	UHF/VHF Tuner/TV Demodulator Schematic Diagram3-18	Servo Block Diagram	
	Schematic Diagram3-18	Timing Chart	
	Capstan Motor Drive Schematic Diagram3-23	CCV Block Diagram	
	CCV Schematic Diagram3-25	TV Main Block Diagram	
	Operation I/II Schematic Diagram	Timer/Operation Block Diagram	7-27

IMPORTANT SAFETY NOTICE:

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

IMPORTANT SAFETY NOTICE:

There are special components used in this equipment which are important for safety. These parts are marked by Δ in the Schematic Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	NODEL	MARK
PV-M1324	A	PV-M2024	шься
PV-M1324W	B	VV204	
VV134	C	VV204W	
VV134W	D	PV-M2044	

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. It is advisable to insert an isolation transformer in the AC supply before servicing.

2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shield, and isolation R-C combinations are properly installed.

4. Before turning the receiver on, measure the resistance between B+ line and chassis ground. Connect (-) side of an ohmmeter to the B+ lines, and (+) side to chassis ground. Each line should have more resistance than specified, as follows:

B+ Line	Minimum H	esistance
130V	1K ohm	(Hot chassis ground)
27V	180 ohms	(Cold chassis ground)
17V	110 ohms	(Cold chassis ground)

- 5. When the TV set is not used for a long period of time, unplug the power cord from the AC outlet.
- 6. Potentials, as high as [25.0KV: Model A, B, C, D] or [30.0KV: Model E, F, G, H] (see chart above) are present when this TV set is in operation. Operation of the TV set without the rear cover involves the danger of a shock hazard from the TV set power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the CRT ground of receiver before handling the tube.
- 7. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. For physically operated power switches, turn power on. Otherwise skip step 2.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screwheads, connectors, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 M ohm and 12 M ohms. When the exposed metal does not have a return path to the chassis, the reading must be ∞.

LEAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
 Do not use a isolation transformer for this check.
- 2. Connect a 1.5K ohms, 10 watts resistor, in parallel with a $0.15\mu F$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volt RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

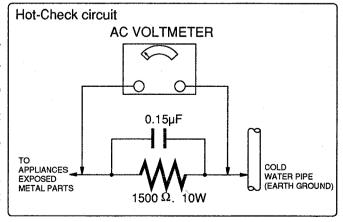


Figure 1

PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors are semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES dévices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

"NOTE to CATV system installer:

Official of the company of the state of the

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

THE REPORT OF THE

aya ili ana ayay ayana gayayaa sari a yasa gasab ka a lagsi asar ay ili agsasi sa sar

LEGITORES TO THE PRESENT TO A WAR I

X-RADIATION

WARNING:

- 1. The potential source of X-Radiation in TV sets is the High Voltage section and the picture tube.
- 2. When using a picture tube test fixture for service, ensure that the fixture is capable of handling

25.0KV: Model A, B, C, D or 30.0KV: Model E, F, G, H (see chart, Page 1-1) without causing X-Radiation.

NOTE:

It is important to use an accurate periodically calibrated high voltage meter.

- 1. Reduce the brightness to minimum.
- 2. Set the SERVICE switch to SERVICE ...
- 3. Measure the High Voltage. The meter reading should indicate

23.8 ± 1.5KV : Model A, B, C, D or 28.5 ± 1.5KV : Model E, F, G, H (see chart, Page 1-1).

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

4. To prevent an X-Radiation possibly, it is essential to use the specified picture tube.

VERTICAL OSC. DISABLE CIRCUIT TEST

SERVICE WARNING:

The test must be made as a final check before set is returned to the customer.

- 1. With the rear cover removed, supply about a 120V AC power source to the set, turn on the set.
- 2. Set the customer controls to normal operating positions.
- 3. Short between TP91 and TP92 on the Main circuit board with a jumper wire. Confirm that the vertical signal is lost.
- 4. If this does not occur, the vertical oscillator disable circuit is not operating. Follow the Repair Procedures of Vertical Oscillator Disable Circuit Repair Procedure before the set is returned to customer.

REPAIR PROCEDURES OF VERTICAL OSCILLATOR DISABLE CIRCUIT

- 1. Connect a DC voltmeter between capacitor C501 (+) on the Main circuit board and chassis ground.
- 2. If approximately +21.9V is not present at that point when 120V AC is applied, find the cause. Check R507, R509, R505, C501 and D503.
- 3. Check 12V supply if out of tolerance. Check Q1201 and other components that affect this transistor on the VCR Chassis.
- 4. Check Q510, Q310 and D510.
- Carefully check above specified parts and related circuits and parts. When the circuit is repaired, try the Vertical Oscillator Disable Circuit Test again.

CIRCUIT EXPLANATION

VERTICAL OSCILLATOR DISABLE CIRCUIT

The positive DC voltage, is supplied from the cathode of D503 for monitoring the high voltage, is applied to the base of Q510 through R508 and R509. The voltage at the emitter of Q510 is regulated by Zener Diode D510. Under normal conditions, the voltage applied across the base and emitter of Q510 is not sufficient to cause base current to flow and holds the transistor cut off. If the high voltage increases over the specified voltage, the positive DC voltage which is supplied from the cathode of D503 also increases. The increased voltage applied to the base of Q510 causes base current to flow through Zener Diode D510. Consequently Q510 collector current begins to flow and turn Q310 on. This causes 12V at IC301 PIN 29 and disables the vertical Sweep. Thus, vertical signal is lost.

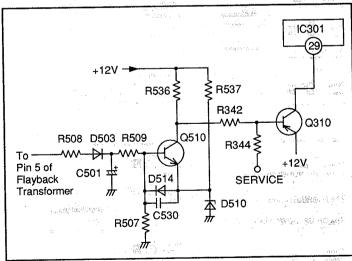
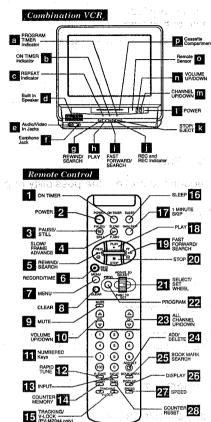


Figure 2

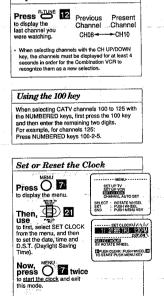
I. SUMMARY A. BASIC OPERATIONS

Control Reference Guide









Helpful Notes

Rapid Tune

- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.
- Make entries within 5 minutes, or the Combination VCR exits the Set Clock screen.
- VCH outs the Set Clock screen.

 Normal TV or Cable channels are automatically selected and placed in memory depending on how your Combination VCR is hooked up.

 Chennel Auto Set is not accessible when a recording is in progress. If it is a timer recording, set clock is also not accessible.

Before you begin, make sure.

- your Antenna or Cable system Combination VCR.
- combination VCR.

 you familiarize yourself with the easy operation of the Select/Set Wheel before turning on the Combination VCR.

Select/ Set Wheel Operation There are two types of Wheel operation. Selecting from a menu type screen and entering information, such as setting the clock, programming the timer, etc *\$1(16.1°)



to make selection to enter selection

Examples of Operation

When selecting from a menu, rotate the Wheel to move the shaded area up or down the screen.

Then, press the Wheel like



SERGER SERVICES

PUSH WHEELE TO END PUSH MENUKEY

When entering information such as, setting the clock, rotate the Wheel to change the numbers. Then, press the Wheel to enter and move on to the next item.

n 1900 asid

• Place Channels in Memory • Set the Clock Press CH 28 (or III)

"CH AUTO SET COMPLETED"

CHANNEL AUTO SET

The lowest numbered channel.

*PLEASE SET CLOCK BY PUSHING MENU

通信的 医线性体格 人名

2 Press 7 Z within 10 seconds to display the SET CLOCK screen.



If MENU is not pressed within 10 seconds, the Combination VCR will exit this mode. In this case, please see the "Set or Reset the Clock" section on the next page.

· The day of the week automatically appe *DST:ON* automatically adjusts for Daylight Saving Time.

i viersmixmoas

To make corrections, press the Wheel or CLEAR button repeatedly to move back or forward to the desired Item.

Press 7 7 twice to start the clock and exit this mode.



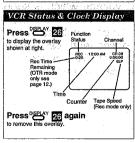
On Screen Displays (OSD)

Function & Channel Display

Whenever a function button is pressed (PLAY, FF, etc.) or the channel is changed, a 4 second OSD will appear first in large and then small characters.



Menu Screen Press O 7 SET UP VCR SET CLOCK PUNNEL AUT SELECT : ROTATE WHEEL SET PUSH WHEEL END PUSH MENU KEY Then, 21
to make your selection.
(See page 6 for details.) To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.



Blank Tape Indication

It a blank section of tape is encountered in the play mode or the channel you select has no broadcast, the screen will change to a solid blue field. The screen will remain blue until a recorded signal is again detected or an active channel is selected.

Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

If no active channels are found for CHANNEL MEMORY...

If you attempt to set or review a Timer Recording or set the On Timer and the Clock is not

PLEASE SET CLOCK

If a Timer Program was not completed before exiting the Program mode...

If you cassette with ... record tab is not inserted before a Timer Recording is about to begin...

PLEASE PREPARE FOR TIMER REC

If you press REC on the remote control or REC and PLAY on the Combination VCR, and a cassette is inserted with no record tab...

on the remote control or REC and PLAY on the Combination VCR without

If you press STOP during a Timer Recording...



Watching TV/Closed Caption System

Before you begin, make sure

Watching TV Main Operation Press O 2 to turn the Combinat

Then, select a channel using the CHANNEL UP/DOWN or NUMBERED keys.

Set the On Timer

The Combination VCR can be set to turn on automatically. Out take.

1 Press O 1. The ON TIMER display appears or



channel number for TV mode or "PLAY" for VCR Playback



To make corrections, press the Wheel of CLEAR button repeatedly to move back or forward the desired item.

Press O 11 to set the ON TIMER function. "ON TIMER SET" will appear for about 5 seconds on-

To cancel, press the ON TIMER button after the timer has been set. "ON TIMER END" will appear for about 5 seconds on-screen.

Set the Sleep Timer

Press 16 repeatedly.
SLEEP TIMER 30, 60 or 90 (minutes)* will

To cancel, press SLEEP button until "SLEEP

Closed Captioned Settings

Caption MODE: CAPTION
A narration of selected TV programs will be displayed on the screen. Check your TV program listings for CC (closed caption) broadcasts.

Caption MODE: OFF

closed caption proedcast is received.

Caption MODE: TEXT

The lower half of the screen will be blocked out.
When the TV station proadcasts text such as program listings, special information, etc., it will appear in this space. This text block will remain the screen until you remove it by changing the display in step 3 below.

Set the Closed Caption Mode



2 Use 21 to select SET UP TV from the menu, and then, select CAPTION.



3 Use 21 to select the Caption MODE as described above and then to select C1 or C2 as the caption channel.

Then, press MENU twice to exit this mode.

The caption signal may be broadcast over one or both channels (C1, C2).

Make entries within 5 minutes, or the Combination VOR exits the CAPTION screen.

Recording and Playing Back a Closed Caption/Text Program

Record: Your Combination VCR will automatically record the Closed Caption/Text signal. Just follow normal recording operation.

Playback: To display the Closed Caption narration or Text during playback, simply follow the steps above.

1 Press 7 7 to display the menu SET UP VCA SET CLOCK SELECT : BOTATE WHEEL SET : PUSH WHEEL END : PUSH MENU KEY

2 Use 21 21 Use 22 Use 24 Use 25 Use 3 Use 2 21

TV Picture Adjustment



Adjusting the Picture and Sound

to select and display the desired video adjust overlay. (See description at right.) 4 Use 21 0 1 to adjust and set the control.

5 Press 7 twice to exit this mode.

To Reset Picture Controls to the Factory Setting





(, B.A. comina from VCA utait and connector (B2) on TA

Earphone

Video Adjust Overlays COLOR Control of the colors. 0 TINT BRIGHT Control 32 BAGH V 142 / PICTURE Control 63 PICTURE To adjust the intensity of the picture by adjusting contrast and color level at the same time and in the proper halance 32 SHARPWESS SHARPNESS To adjust the sharp of the picture. ADJUST : HOTATE WHEEL





Remove Top Snield P

One Touch Recording (OTR)

You can set up the Combination VCR to turn itself off at a preset time making it a one touch timer recording.

Continue O REG (or 1) to set the recording length. Each press will change the time as shown in the diagram below.

Normal +0.30 -1.00 -2.00 -3:00 -8:00 - 1.00 - 2:00 - 3:00

Press PAUSE to pause normal recordings in progress One Touch Recordings can not go into Pause mode. After the Combination VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.

In step 5.

Helnful Notes

Connect an earphone (not supplied) to the Earphone jack

Basic Recording

Before you begin, make sure

Basic Recording Operation Insert a cassette D with record lab.

Combination VCR power automatically.

2 Press 13 until channel number appears on-scree . To record from an outside source, press INPUT so that "LINE" appears on-screen.

Press ♥ 23

3	to select a char be recorded.	nnel to	S)	ar.	gr ir	5 K
À	1.5	1.09		0	5.75	Г
4	Press SPEE	D 27 d speed	H	£	, sı	P

5 Press 6 (or in and it)

6 Press 500 20 (or k)

Basic and Special Playback

Before you begin, make sure ...

Basic Playback Operation 1 Insert a cassette; Paragraphic ass 2 Press 18 (or 17) to start playback. 3 Press (5 (or 9) or 19 (or 1) to quickly locate a scene during playback.

SP mode tapes have a search speed of 9 times (Model PV-M2044 only) and SLP m tapes 27 times the normal speed.
Some noise bars will appear during search

4 Press see 20 (or k)

Then, press k on the Combination VCR to eject the

Special Effects During Playback

These features work best in SLP mode. (SP or SLP mode for model PV-M2044 only) Sound will be muted,

Double Speed Playback

Press h on the Combination

Slow Motion Playback

Press again to release. Still Frame Picture

Press 0 3 Press again to release

Frame Advance

Press 👸 4 repeatedly

hold down in Still mode, to advance the still one frame at a time.

Press STILL or PLAY to release.

Intelligent Search

Italier a Rew or FF earch is done the search is re-started within 5 seconds, the search speed is slow down (SP mode: 5 times; SLP mode: 9 times) (SP mode for model PV-M2024 only) for a duration of 8 sec. Then normal search speed resumes.

Features for a Quality Picture

Digital Auto Tracking This feature continuously analyzes the and adjusts for optimum picture quality

Manual Tracking Control Use during Playback, Slow Motion, and Double Speed Playback to reduce picture

Press Conscience 15

until the picture clears up. To return to Auto tracking, eject and re-insert the tape.

V-Lock Control (Model PV-M2044 only) Use during Still mode to reduce

Press PLOCK 15

PanaBlack™ Picture Tube This Combination VCR uses a PanaBlack™ picture tube for better color reproduction and picture contrast

B. SERVICE NOTES AND CAUTIONS

When servicing, note the following items.

A. Cylinder Rotation in STOP mode

The cylinder will continue to rotate for approximately 10 minutes after the STOP button is pressed in Play mode etc. Eject the tape in order to stop the cylinder.

B. Servicing the VCR Section and the TV Section

B-1. Service Position (1)

Service Position (1) is used to check the of Mechanism and Electronic Circuits.

In this position, check the movement of mechanical parts on the Mechanism Chassis and replace parts as needed. In this position, limited checking of the electronic circuit on the VCR Main C.B.A. from the component side of the board is possible using the screening on the foil pattern.

To position the VCR Unit and the TV Main C.B.A. for servicing as shown in Fig. 1-1, use the following procedure.

- 1) Remove Back Cover Unit by removing 9 Screws (S-1) in Fig. D2, page 2-2.
- 2) Disconnect connector P4152, P3002 and P4153 : Model E, F, G, H in Fig. D5, page 2-2.
- 3) Release A/C Cord and Lead Ass'y from Clamper on Top Shield Plate Ass'y in Fig. D6, page 2-3.
- 4) Disconnect connectors (K1, K2, K6) on TV Main C.B.A. coming from VCR Unit and connector (B1) on TV Power C.B.A. coming from VCR Unit and connector (B2) on TV Power C.B.A. coming from Power Supply Ass'y in Fig. D4, page 2-2.
- 5) Carefully pull out VCR Unit from TV Cavity.
- 6) Remove Top Shield Plate Ass'y by removing 2 Screws (S-6) and 2 Screws (S-7) in Fig. D6.
- Remove 2 Screws (S-10), 2 Screws (S-11), Screw (S-12), Screw (S-13), Screw (S-14) and Chassis Angle in Fig. D9, page 2-3.
- 8) Remove 2 Screws (S-16) and Screw (S-17) in Fig. D10, page 2-4.
- Disconnect connector P6001 on the VCR Main C.B.A. coming from the Safety Tab SW. in Fig. D10.
- Raise the Mechanism Chassis and fix it using the Chassis Angle which was used to fix the Mechanism Chassis on the Frame.
- 11) Place the VCR Unit for servicing as shown in Fig. 1-1.
- 12) Reconnect connectors(K1, K2, K6, B1, B2), P4152, P3002 and P4153 : Model E, F, G, H

a a a Seet

13) Place the jumper between TP6001 and GND.

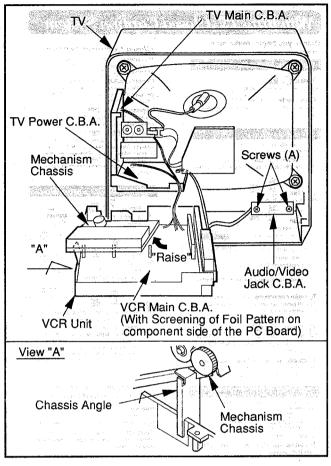


Fig. 1-1

B-2. Service Position (2)

Service Position (2) is used for checking and replacing Mechanical and Electrical parts.

To position the VCR Unit for servicing as shown in Fig. 1-2, use the following procedure.

- 1) Remove Back Cover Unit by removing 9 Screws (S-1) in Fig. D2, page 2-2.
- 2) Disconnect connector P4152 in Fig. D5, page 2-2.
- 3) Model: E, F, G, H
 Remove Audio/Video Jack C.B.A. by removing
- 2 Screws (A) as shown in Fig. 1-1.
 4) Release A/C Cord and Lead Ass'y from Clamper on Top
- Shield Plate Ass'y in Fig. D6, page 2-3.

 5) Disconnect connectors (K1, K2, K6) on TV Main C.B.A. coming from VCR Unit and connector (B1) on TV Power C.B.A. coming from VCR Unit and connector (B2) on TV Power C.B.A. coming from Power Supply Ass'y in Fig. D4, page 2-2.
- 6) Carefully pull out VCR Unit and Audio/Video Jack
 C.B.A.: Model E, F, G, H from TV Cavity
- 7) Remove Top Shield Plate Ass'y by removing 2 Screws (S-6) and 2 Screws (S-7) in Fig. D6.
- 8) Remove Power Supply Ass'y by removing Screw (S-8) and Screw (S-9) in Fig. D7, page 2-3.

 Remove Operation I, II C.B.A.s by releasing 3 Locking Tabs (L-6) in Fig. D8, page 2-3.

10) Remove 2 Screws (S-10), 2 Screws (S-11), Screw (S-12), Screw (S-13), Screw (S-14), Screw (S-15) and Chassis Angle in Fig. D9, page 2-3.

11) Lift up the VCR Chassis Unit. Refer to Note Item 1 and 2. Then place it left side down.

12) Remove 2 Screws (S-16) and Screw (S-17) in Fig. D10, page 2-4.

13) Disconnect connector P6001 on the VCR Main C.B.A. coming from the Safety Tab SW. in Fig. D10.

14) Open the Mechanism Chassis and the Cassette Up Ass'y.

15) Reconnect connectors (K1, K2, K6, B1, B2).

16) Place the jumper between TP6001 and GND.

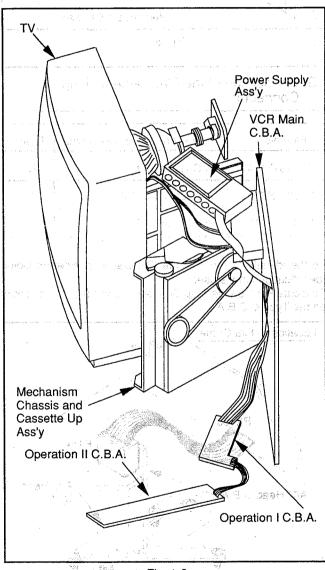


Fig. 1-2

Note:

1. To remove the VCR Chassis Unit from the frame:

1) While pressing in on the locking tab (A), lift the Side Plate -R of Cassette Up Ass'y until the edge of VCR Main C.B.A. clears the locking tab (A).

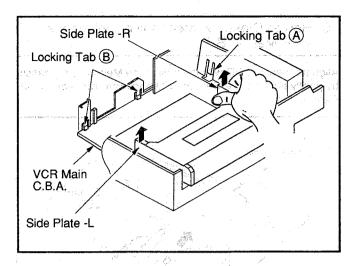


Fig. 1-3

- 2. When lifting up the VCR Chassis Unit, do not pull up on the Top Plate of the Cassette Up Ass'y.
- 3. When servicing in Service Position (2), do not use a T160 tape. It may cause a Tape Jam.
- If misloading of the cassette tape is encountered in this position, press the Cassette Tape firmly into the Cassette Up Ass'y with the left thumb.

C. To Service the CCV C.B.A.

- 1) Remove the Rear Panel.
- 2) Press the CCV C.B.A. to the angle shown in diagram.
- 3) Unsolder the Shield Case -Bottom.
- 4) Service the CCV C.B.A. while pressing the CCV C.B.A. at angle shown in diagram.

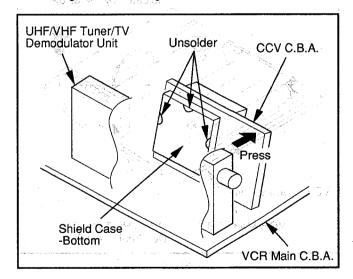


Fig. 2

D. How to Close the Mechanism Unit on the VCR Main C.B.A.

Align the Sensor LED with the hole in the Mechanism Chassis by gently pushing the Sensor LED backward with your hand. Refer to Fig. 3.

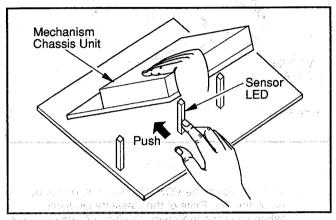


Fig. 3

E. Handling of the VCR Main C.B.A. when Servicing

DO NOT pull the VCR Main C.B.A. in the direction indicated by the arrow. **DO NOT** pull upward while holding the UHF/VHF Tuner/TV Demodulator Unit because you may crack the VCR Main C.B.A..

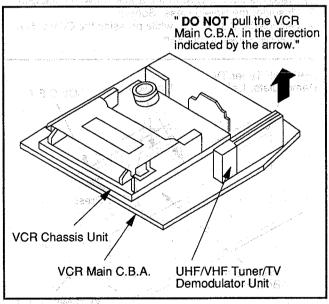


Fig. 4

F. Service of Capstan Motor Drive C.B.A.

When servicing, avoid touching IG2502 on the Capstan Motor Drive C.B.A. because it is **HOT** during normal operation.

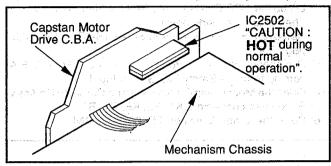


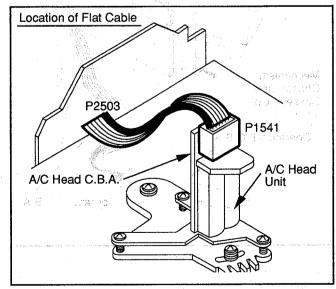
Fig. 5

G. Connection of the Flat Cable to Trap Connector

Plug No.	Location of Trap Connector	Туре
P2503-P1541	A/C Head Unit	Α
P7501-P7551	Operation I C.B.A.	Α
P1001-P1201	VCR Main C.B.A.	В

To the identify of Pin 1 of the Flat Cable, a different Color Identification Line is used.

To locate Pin 1 on the Trap Connector, find the pin 1 indicator on the Typical C.B.A.



ा अक्षा असे शहर**मीके 6-1**ए कर करवाला औ

19. julija kao estreje en Alfa III estr Per sent estre Augert Jahres entre

Burga Arra Araban Sanga

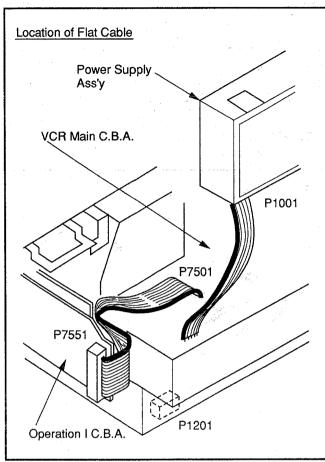


Fig. 6-2

(Removal or Installation of Flat Cable)

a. Removal

- Type A used in the A/C Head Unit and the Operation I C.B.A.
 - Pull out the Flat Cable. Minimize stress by holding it securely to avoid damage of the individual wires. (See Fig. 6-3)

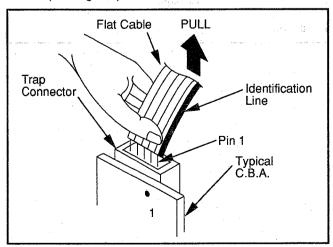


Fig. 6-3

2. Type B used in the VCR Main C.B.A.

1) Pull out the Flat Cable while pushing against the (a) portion of the Trap Connector in the direction indicated by arrow to unplug as shown in Fig. 6-4.

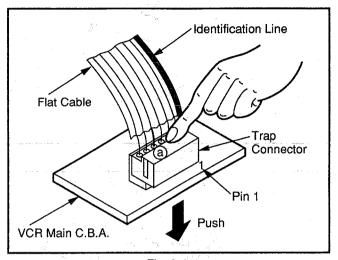


Fig. 6-4

Note:

After unplugging, make sure that the (a) portion of the Trap connector has returned to its original position.

b. Installation

- 1. Adjust the position of the Flat Cable so that the Identification Line on the Flat Cable aligns with Pin 1 of the Trap Connector in Fig. 6-3 and 6-4.
- Align the individual wire with its individual Trap Connector Hole. Then insert the Flat Cable wire into the Trap Connector.

Note:

After installation, inspect the Connection to ensure that an individual wire is not bent or touching another wire.

H. Removal/Installation of Mechanism Chassis to the VCR Main C.B.A.

Preparation

- 1) Remove 2 Screws (S-10), 2 Screws (S-11), Screw (S-12), Screw (S-13), Screw (S-14) and Chassis Angle in Fig. D9, page 2-3.
- 2) Remove 2 Screws (S-16) and Screw (S-17) in Fig. D10, page 2-4.
- Disconnect connector P6001 on the VCR Main C.B.A. coming from the Safety Tab SW. in Fig. D10.

a. Removal

Remove the Mechanism Chassis as follows.

- Lift up the right rear corner while holding the VCR Main C.B.A. to disconnect the right rear mechanism connector.
- 2) Lift up the left rear corner while holding the VCR Main C.B.A. to disconnect the left rear mechanism connector.

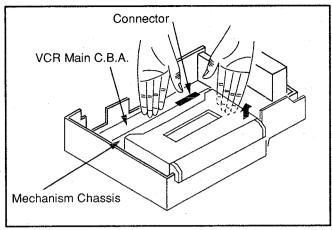


Fig. 7-1-1

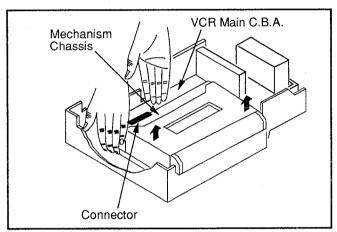


Fig. 7-1-2

b. Installation

Connect the Mechanism Chassis to the VCR Main C.B.A., as shown below. Be sure to press the rear portion of the mechanism chassis to insert connectors securely.

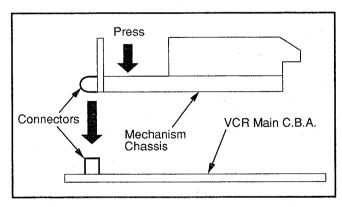


Fig. 7-2

I. Method for Manual Loading / Unloading of VCR

Turn the Loading Pulley of the Motor Block Ass'y (shown in Fig. 8) counterclockwise (for loading) or clockwise (for unloading) as viewed from the Front Side.

Note:

DO NOT apply +12V to the Terminals of Loading Motor Unit on the Motor Block Ass'y.

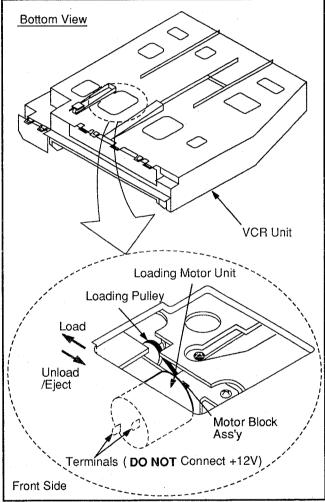


Fig. 8

J. How to remove a Jammed Tape

- 1. Remove Back Cover Unit by removing 9 Screws (S-1) in Fig. D2, page 2-2.
- 2. Disconnect connector P4152, P3002 and P4153 : Model E, F, G, H in Fig. D5, page 2-2.
- 3. Release A/C Cord and Lead Ass'y from Clamper on Top Shield Plate Ass'y in Fig. D6, page 2-3.
- Disconnect 3 connectors (K1, K2, K6) on TV Main C.B.A. and 2 connectors (B1,B2) on TV Power C.B.A. in Fig. D4, page 2-2.
- 5. Carefully pull out VCR Unit from TV Cavity.
- 6. Remove Top Shield Plate Ass'y by removing 2 Screws (S-6) and 2 Screws (S-7) in Fig. D6.
- 7. Remove Operation II C.B.A. by unlocking 2 Locking Tabs (L-6) in Fig. D8, page 2-3.
- 8. Rotate Loading Pulley to unload the Mechanism from the bottom side of VCR Unit as shown in Fig. 8.
- 9. Turn Capstan Pulley counterclockwise from VCR hole as shown in Fig. 9 to wind the Tape Slack into the cassette.

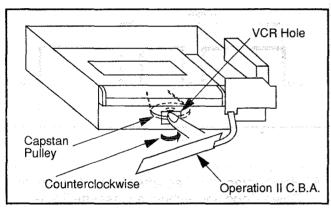


Fig. 9

K. Simplified Fault Finding Point

This model has a Simplified Self-Diagnostic System to facilitate finding the cause in case VCR stops accidentally and button operation can not be accessible.

Method 1

Press FF button on VCR to display Fault Code indication in OSD or LED as listed in Fig. 10-2.

Use LED indication when OSD indication can not be displayed.

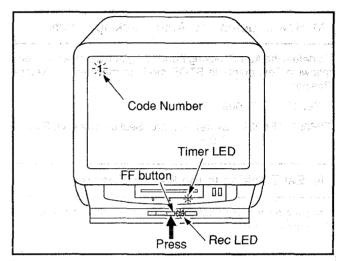


Fig. 10-1

The Simplified Fault finding data is memorized for approximately 24 hours.

This data is cleared after it is displayed with the FF button and then the Power button is pressed back on.

ett stat dawn postron

Method 2

Connect the oscilloscope probe to TP6002 on the Servo Section of the VCR Main C.B.A..

The signal at TP6002 indicates the trouble as listed in Fig. 10-2.

Note: Under normal conditions, a DC +5V Signal at TP6002 is displayed.

Information State of the State	Code No. (OSD)	LED	TP6002
Takeup Reel Lock		Timer LED lights up	Low Voltage 0V
Cylinder Lock	adh deith	Rec LED lights up	0.3Hz Pulse (Duty 50%) 3.0Sec 5V 0V
Exceeds Loading/Unloading Time		Timer and Rec LED light up	0.75Hz Pulse (Duty 50%) 1.5Sec 5V 0V
Exceeds Cassette Loading/Unloading Time	4	Timer and Rec LED flash	Intermittent Pulse 350mSec Sec 5V 0V

L. Service Test Point (TP6001)

The detection of the Supply / Takeup Photo Transistors, Cassette Down, Reel Sensor and Cylinder Lock will be inhibited when TP6001 is grounded on the System Control Section of the VCR Main C.B.A.

Note:

If a Cassette Up Ass'y is removed and TP6001 is grounded, confirmation of Mechanism movement without a Tape is possible.

M. How to defeat the Auto Tracking Function

To defeat the Auto Tracking Function, place a jumper between following Test points in STOP mode to maintain the Neutral Position.

TP6003 ---- TP6009 (+5V)

TP6003, TP6009: System Control Section of the VCR Main C.B.A.

N. Set Tracking to the Neutral Position

Pressing eject and reinserting a Tape will access the Neutral Tracking position.

O. Microprocessor Judgement Point

This model has the Microprocessor judgement system to improve the accuracy of microprocessor replacement if the unit malfunctions.

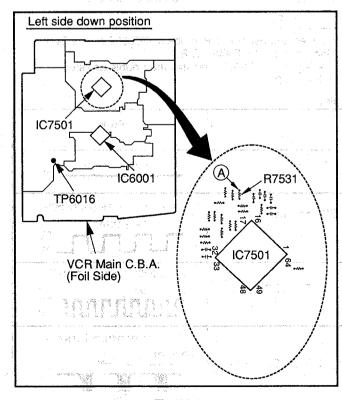


Fig. 11-1

IC6001 Judgment
 Use TP6016 on the VCR Main C.B.A as a check Terminal
 for judgment of the microprocessor. The microprocessor is
 OK if there is Scan pulse output. See Fig. 11-2.

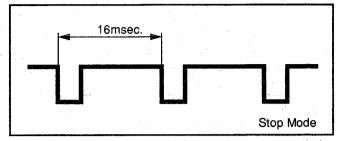


Fig. 11-2

IC7501 Judgment
 Use point (A) on the VCR Main C.B.A as a check Terminal
 for judgment of the microprocessor. The microprocessor is
 OK if there is chip select pulse output. See Fig. 11-3.

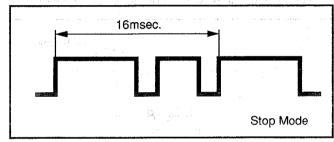


Fig. 11-3

P. How to place the Cassette Holder Ass'y in the Down Condition without a Cassette Tape

To place the Cassette Holder Ass'y in the down position without a cassette tape, use the following procedure.

Method 1 - Refer to Fig. 12

- 1. Disconnect AC Cord.
- 2. In the order described in the Disassembly of Cabinet Parts Section, remove the VCR Chassis Unit.
- 3. Place the Unit left side down.
- 4. Remove Screw (A) and lift (Do Not Remove) the Grounding Plate to access the right side First Locking Tab.
- 5. Turn the Loading Pulley counterclockwise (Front View) until the Top of Set Lever L and R is locked by the First Locking Tab (Left and Right).
- Clear the First Locking Tab (Left and Right) by pressing down the top of the Set Lever L and R.
- 7. Turn the Loading Pulley counterclockwise (Front View) until the top of Set Lever L and R is locked by the Second Locking Tab (Left and Right).
- 8. Clear the Second Locking Tab (Left and Right) by pressing down the Top of the Set Lever L and R.
- Continue to turn the Loading Pulley until the Cassette Down Position is obtained.

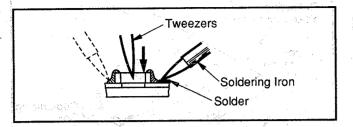


Fig. 14-3

Note:

Do not glue the replacement leadless component to the circuit board.

Y. Special Note

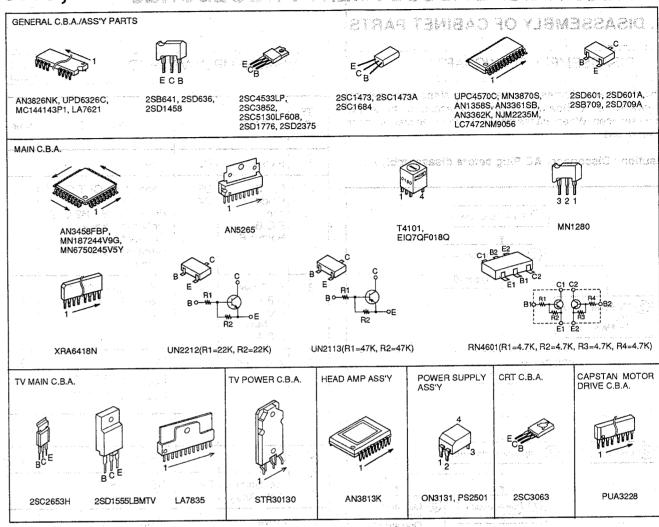
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

Use this cross reference chart to determine the equivalent model used in the Summary, Adjustment Procedures, Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List.

MODEL	MARK
PV-M1324	A
PV-M1324W	В
VV134	C % -
VV134W	_e D
PV-M2024	E
VV204	F
VV204W	G
PV-M2044	J H €
NOT USED	Z

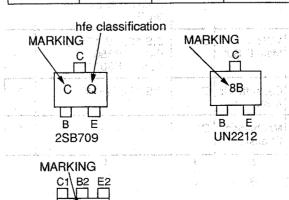
Note: Refer to Item 7 of Schematic and C.B.A. Diagram Notes, Page 3-2 for mark "Z".

C. IC, TRANSISTOR AND CHIP PART INFORMATION



HOW TO READ THE IDENTIFICATION MARK OF CHIP COMPONENTS.

A T T	and the second of the second	- 1	and the contract of the contra
MARKING	PART NO.	MARKING	PART NO.
Α	2SB709	VA	RN4601
В	2SB709A	6C	UN2113
Υ	2SD601	8B	UN2212
Z	2SD601A		saja ageriji s

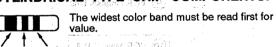


VA

E1 B1 C2

RN4601

HOW TO READ THE VALUES OF THE CYLINDRICAL TYPE CHIP COMPONENTS.



(a)RESISTOR
There are two types(ERD10LLJ... and ERD10TLJ...)of

chip parts.

1) ERD10LLJ: Refer to above type.

Pariodoops TVSMT2UOA.

2) ERD10TLJ: The narrow color band must be read first for value.

If this part is included in the parts list, be sure that the color band is read properly when servicing.

(b)CAPACITOR

Because of the width of the color bands, the reading direction cannot be specified. However, the color band can be read on either side. Be sure to confirm the value using the schematic diagram.

When reassembling, perform the clab, stronton's

Once chip parts are removed, they must not be reused.

Always use a new part when installing a chip part.

partia per una beams upu beap unau desas er

e dagili karayayi kalan oleh San San San San San

II. ADJUSTMENT PROCEDURES

A. MECHANICAL ADJUSTMENT PROCEDURES

1. DISASSEMBLY OF CABINET PARTS

1. DISASSEMBLY FLOWCHART

This flowchart indicates the disassembly steps of the cabinet parts and the P.C. Boards in order to gain access to the item(s) to be serviced. When reassembling, perform the step(s) in the reverse order.

Caution: Disconnect AC Plug before disassembly.

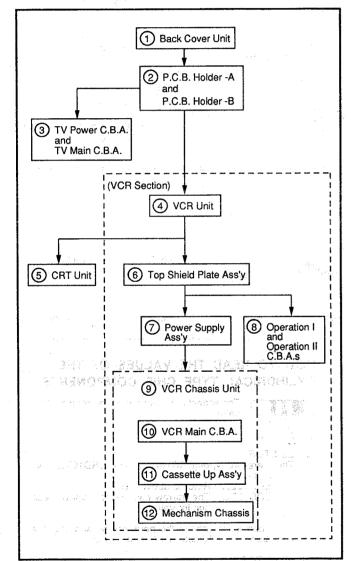


Fig. D1

How to read chart shown above :

(A): Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.

These numbers are also used as the identification (location) No. of parts in Figures.

- B: Part to be removed or installed.
- C: Fig. No. showing Procedure or Part Location.
- (D): Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or unsoldered. 9(S-1)=9 Screws (S-1); (L-1)=Locking Tab (L-1)

2. DISASSEMBLY METHOD

STEP /LOC. No.	PART	Fig. No.	REMOVE	Note
1	Back Cover	D2	9(S-1)	·
2	P.C.B. Holder-A and P.C.B. Holder-B	D3, D4	Anode Cap,CRT C.B.A. Connectors (K1,K2,K6,B1,B2,C12), Deflection Yoke Connector, Degaussing Coil Connector	1
3	TV Power C.B.A. and TV Main C.B.A.	D4	2(S-2), (L-1), 2(L-2), 2(S-3), 2(L-3), (S-4), 2(L-4)	2
4	VCR Unit	D5	P4152, Model : E, F, G, H P3002, P4153	3
		D12-1 D12-2		3a
(5)	CRT Unit	D3	4(S-5)	4
6	Top Shield Plate Ass'y	D6	2(S-6), 2(S-7)	
7	Power	D7	P1201, (S-8), (S-9)	
\$4.5	Supply Ass'y	4.190	3(L-5)	- 5
8	Operation I and Operation II C.B.A.s	D8	3(L-6), P7551	A 3 ;
9	VCR Chassis Unit	D9	2(S-10),2(S-11),(S-12), (S-13), (S-14), (S-15), Chassis Angle, 3(L-7)	6
10	VCR Main C.B.A.	D10	2(S-16), (S-17), P4101, P3501, P2501, P6001	
11)	Cassette Up Ass'y	D11	2(S-18), 2(S-19)	7
12	Mechanism Chassis	D11		8

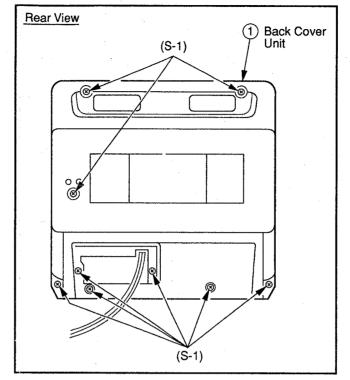


Fig. D2

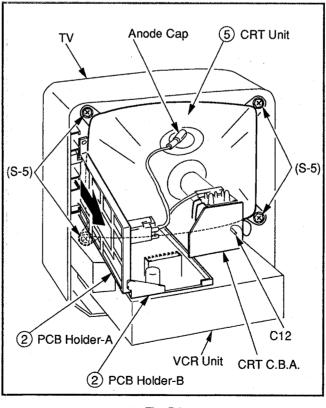


Fig. D3

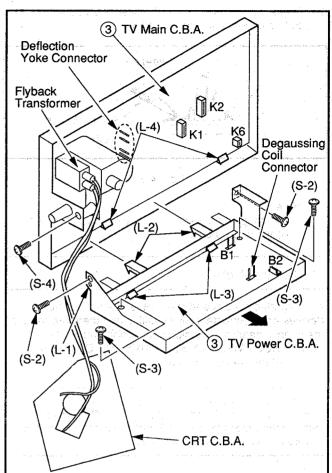


Fig. D4

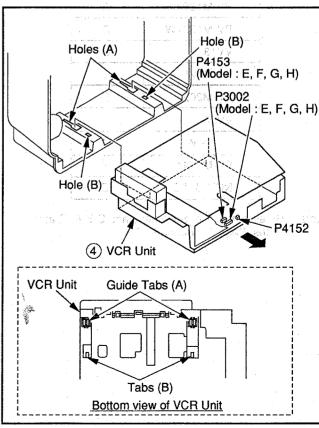
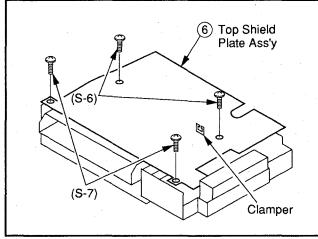


Fig. D5

2-



(8) Operation I C.B.A. P7551 (L-6) (8) Operation II C.B.A.

Fig. D8

(S-12)

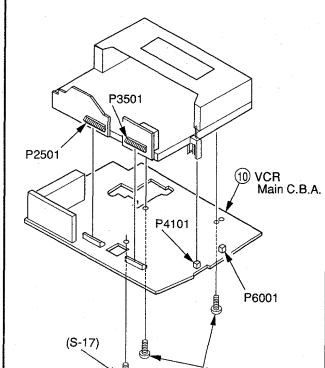
Fig. D9

(S-14)

Chassis

(S-10)

(S-11)



(S-16) Fig. D10

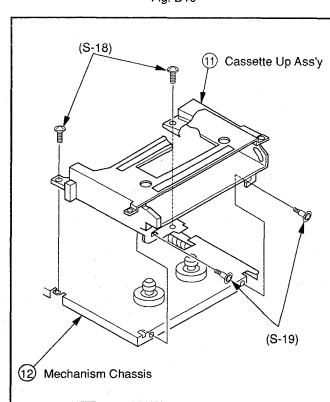
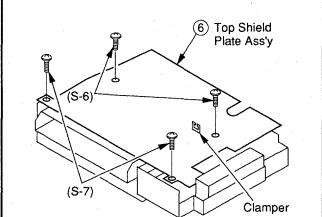
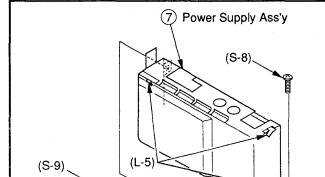


Fig. D11







Lug Ass'y

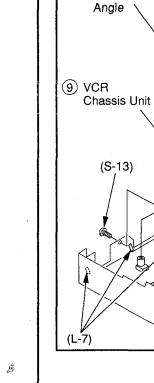


Fig. D7

P1201

Reference <Notes> in Table 2:

- 1. To remove P.C.B. Holder -A and P.C.B. Holder-B from TV Cavity, proceed with following steps,

 1) Discharge Anode to CRT Ground. Then remove the
- Anode Čap.
- Disconnect connector (C12) on CRT C.B.A..
 Carefully pull out CRT C.B.A. from CRT Unit.
- 4) Disconnect Deflection Yoke Connector on TV Main C.B.A. and Degaussing Coil Connector on TV Power C.B.A.
- 5) Disconnect connectors (K1, K2, K6) on TV Main C.B.A. coming from VCR Main C.B.A. and connector (B1) on TV Power C.B.A. coming from VCR Main C.B.A. and connector (B2) on TV Power C.B.A. coming from Power Supply Ass'y.
- 6) Carefully pull out P.C.B. Holder -A and P.C.B. Holder -B. 2. To remove TV Power C.B.A. from P.C.B. Holder-B, proceed with following steps,
 1) Remove 2 Screws (S-2).
- 2) Remove P.C.B. Holder-B from P.C.B. Holder-A by unlocking Locking Tab (L-1) and 2 Locking Tabs (L-2).
- 3) Remove 2 Screws (S-3).
 4) Remove TV Power C.B.A. from P.C.B. Holder-B by unlocking 2 Locking Tabs (L-3).

 To remove TV Main C.B.A from P.C.B. Holder -A, proceed
- with following steps,
- 1) Remove Screw (S-4).
 2) Remove TV Main C.B.A. from P.C.B. Holder-A by unlocking 2 Locking Tabs (L-4).
- 3. To remove VCR Unit from TV Cavity, proceed with following
- 1) Lift up the rear side of VCR Unit slightly to raise Tabs (B).
- 2) Slide VCR Unit out as far as you can.
- 3) Push up front side of VCR Unit from underneath in order to raise 2 Guide Tabs (A) into place.
- 4) Pull VCR Unit all the way out from TV Cavity.
- 3a. When reinstalling:
- Ensure that the VCR Unit is mounted all the way to the Front before reinstalling the TV Assembly as shown in Fig. D12-1: : Model A, B, C, D or Fig. D12-2: Model E, F, G, H
- 4. Place unit face down on a soft cloth before removing the CRT Unit.
- 5. When removing the Shield Case of the Power Supply Ass'y, twist and straighten 3 Locking Tabs (L-5) on the Power Supply Ass'y in Fig. D7. Then remove the Shield Case by pulling it away from the Power Supply Ass'y.
- 6. When removing the VCR Chassis Unit, refer to SERVICE NOTES AND CAUTIONS Item B-2.
- 7. When reinstalling the Cassette Up Ass'y, mechanical adjustment (alignment) should be performed for proper operation. Please refer to Adjustment of Cassette Up Ass'y
- 8. When reinstalling the Mechanism Chassis to the VCR Main C.B.A., refer to SERVICE NOTES AND CAUTIONS Item H.

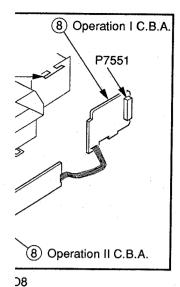
Mod€

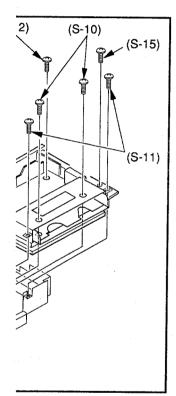
PC

Powe

Mode

P(





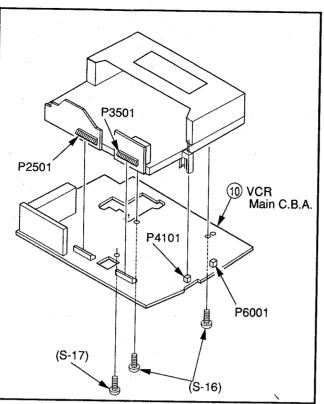


Fig. D10

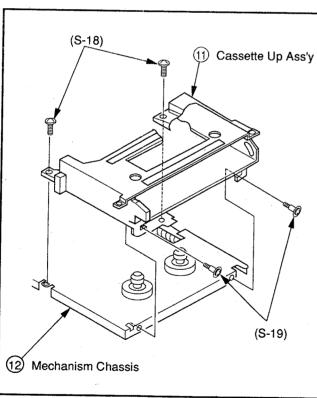


Fig. D11

Reference <Notes> in Table 2:

- 1. To remove P.C.B. Holder-A and P.C.B. Holder-B from TV Cavity, proceed with following steps,
 - 1) Discharge Anode to CRT Ground. Then remove the Anode Čap.
- 2) Disconnect connector (C12) on CRT C.B.A..3) Carefully pull out CRT C.B.A. from CRT Unit.
- 4) Disconnect Deflection Yoke Connector on TV Main C.B.A. and Degaussing Coil Connector on TV Power C.B.A.
- 5) Disconnect connectors (K1, K2, K6) on TV Main C.B.A. coming from VCR Main C.B.A. and connector (B1) on TV Power C.B.A. coming from VCR Main C.B.A. and connector (B2) on TV Power C.B.A. coming from Power Supply Ass'y.
- 6) Carefully pull out P.C.B. Holder A and P.C.B. Holder B. 2. To remove TV Power C.B.A. from P.C.B. Holder-B, proceed with following steps,
- 1) Remove 2 Screws (S-2).
- 2) Remove P.C.B. Holder-B from P.C.B. Holder-A by unlocking Locking Tab (L-1) and 2 Locking Tabs (L-2).
- 3) Remove 2 Screws (S-3).
 4) Remove TV Power C.B.A. from P.C.B. Holder-B by unlocking 2 Locking Tabs (L-3).
 To remove TV Main C.B.A from P.C.B. Holder -A, proceed
- with following steps,
- 1) Remove Screw (S-4).
- 2) Remove TV Main C.B.A. from P.C.B. Holder-A by unlocking 2 Locking Tabs (L-4).
- 3. To remove VCR Unit from TV Cavity, proceed with following
- Lift up the rear side of VCR Unit slightly to raise Tabs (B).
 Slide VCR Unit out as far as you can.
- 3) Push up front side of VCR Unit from underneath in order to raise 2 Guide Tabs (A) into place.
- 4) Pull VCR Unit all the way out from TV Cavity.

3a. When reinstalling:

Ensure that the VCR Unit is mounted all the way to the Front before reinstalling the TV Assembly as shown in Fig. D12-1: : Model A, B, C, D or Fig. D12-2 : Model E, F, G, H

- 4. Place unit face down on a soft cloth before removing the CRT Unit.
- 5. When removing the Shield Case of the Power Supply Ass'v. twist and straighten 3 Locking Tabs (L-5) on the Power Supply Ass'y in Fig. D7. Then remove the Shield Case by pulling it away from the Power Supply Ass'y.

 6. When removing the VCR Chassis Unit, refer to SERVICE
- NOTES AND CAUTIONS Item B-2.
- 7. When reinstalling the Cassette Up Ass'y, mechanical adjustment (alignment) should be performed for proper operation. Please refer to Adjustment of Cassette Up Ass'v and Chassis.
- 8. When reinstalling the Mechanism Chassis to the VCR Main C.B.A., refer to SERVICE NOTES AND CAUTIONS Item H.

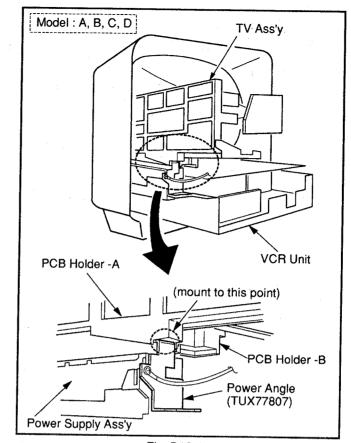


Fig. D12-1

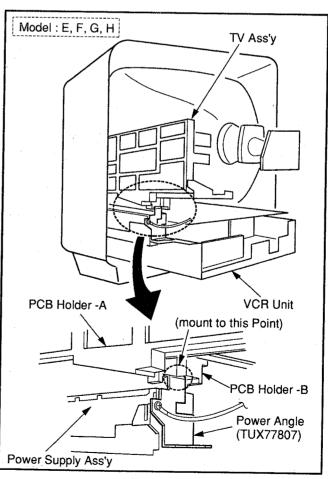


Fig. D12-2

1. PROCEDURE FOR CLEANING UPPER CYLINDER UNIT

- Position the Video Head to permit access for cleaning. Hold the Upper Cylinder to keep it from turning while cleaning it.
- Gently rub the Video Heads in the direction of tape travel with a Head Cleaning Stick (VFK27) moistened with Ethanol.
- . Repeat for the other Video Heads.

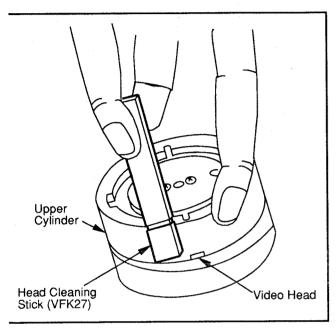


Fig. M1

Note:

- 1. Do not rub vertically.
- Do not apply any pressure to the head.
 If contaminant is not easily removed, continued gentle wiping will usually remove it.
- 3. Clean the Cylinder surface with Ethanol if fingerprints are present after cleaning the Video Heads.

3. ADJUSTMENT PROCEDURES

1. REPLACEMENT OF UPPER CYLINDER UNIT

1-1. REMOVAL OF UPPER CYLINDER UNIT

Work with extreme care when removing or replacing the Upper Cylinder Unit. Do not touch Video Heads during servicing.

 Remove 2 Screws with Washers (A) and gently lift the Upper Cylinder Unit from the shaft.

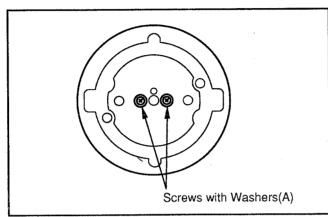


Fig. M2

1-2. CLEANING OF D.D. CYLINDER SHAFT AND THE SURFACE

 Before reinstalling a new unit, clean the D.D. Cylinder Shaft and the surface that engages with the Upper Cylinder with a soft cloth dampened with Ethanol in Fig. M3.

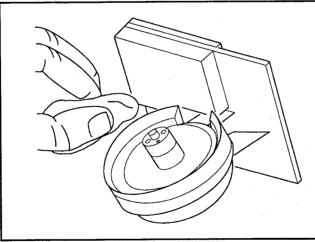


Fig. M3

1-3. REPLACEMENT OF UPPER CYLINDER UNIT

 Install the new Upper Cylinder Unit carefully so that the hole in the new Upper Cylinder Unit is properly matched to align the hole on the Upper Cylinder to the center of the indentation on the D.D. Cylinder. For details on the installation position, refer to Fig. M4.

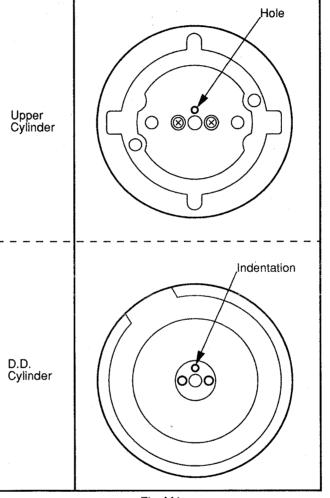


Fig. M4

- Tighten 2 Screws with Washers (A) shown in Fig. M2.
 Clean the Upper Cylinder with a deerskin swab (Head
- Cleaning Stick) saturated with Ethanol.

Note

Upon completion of replacement, perform "TAPE INTERCHANGEABILITY ADJUSTMENT," especially "HORIZONTAL POSITION ADJUSTMENT OF A/C HEAD."

2. REPLACEMENT OF D.D. CYLINDER UNIT

Work with extreme care when removing or replacing the D.D. Cylinder Unit. Do not touch Video Heads during servicing.

- 1. Remove the VCR Chassis Unit.
- 2. Remove the VCR Main C.B.A.
- Place the Mechanism Chassis and Cassette Up Ass'y upside down.
- 4. Remove Black Screw (A) and the Earth Plate Unit.
- 5. Remove 3 Screws (B).
- Place the Mechanism Chassis and Cassette Up Ass'y in a normal position.
- 7. Remove 2 Screws (C) and then lift the D.D. Cylinder Unit and Head Amp Ass'y slowly from the top side.

Note:

Since there is very little clearance between the D.D. Cylinder Unit and the chassis, remove the D.D. Cylinder Unit gently and carefully.

- Unsolder P3502 and P3503 on the Head Amp Ass'y and then remove the Head Amp Ass'y from the D.D. Cylinder Unit.
- Place the Mechanism Chassis and the Cassette Up Ass'y upside down.

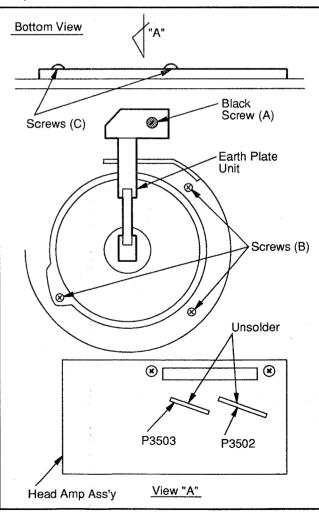


Fig. M5-1

 Reinstall the new D.D. Cylinder Unit on to the chassis by reversing the procedure previously described.

Note:

 Reinstall the new projections on the C lower surface of the Cylinder Unit to the Fig. M5-2). Hold the as not to touch the Cylinder. If any of them with a deer saturated with Etha



- Upon completion of sure that the D.D. maintenance is re INTERCHANGEA (VFMS0001H6).
- 3. Adjustment of the installation. Refer

3. CONFIRMATION PLATE INSTA

Purpose:

To optimize the posit

Symptom of Misadjustn May cause Cylinder

Remove the Mechanism see if the Earth Plate Ur than 1mm (but not mor center of the plate to the in Fig. M6. If required, a loosening Black Screw

Note:

Never install the Ear (on the left side of thalways within a max center of this shaft. **IDER**

RUNIT

g the Upper ervicina.

v lift the

rs(A)

SHAFT

rlinder Shaft :ylinder with



1-3. REPLACEMENT OF UPPER CYLINDER

1. Install the new Upper Cylinder Unit carefully so that the hole in the new Upper Cylinder Unit is properly matched to align the hole on the Upper Cylinder to the center of the indentation on the D.D. Cylinder. For details on the installation position, refer to Fig. M4.

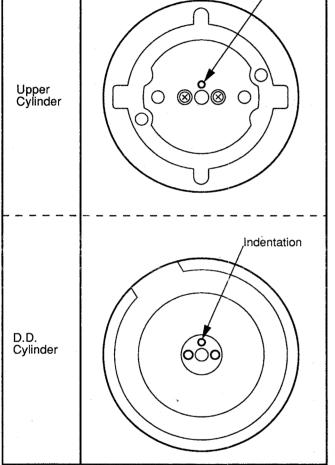


Fig. M4

2. Tighten 2 Screws with Washers (A) shown in Fig. M2.

3. Clean the Upper Cylinder with a deerskin swab (Head Cleaning Stick) saturated with Ethanol.

Upon completion of replacement, perform "TAPE INTERCHANGEABILITY ADJUSTMENT," especially "HORIZONTAL POSITION ADJUSTMENT OF A/C HEAD.

2. REPLACEMENT OF D.D. CYLINDER UNIT

Work with extreme care when removing or replacing the D.D. Cylinder Unit. Do not touch Video Heads during servicing.

- 1. Remove the VCR Chassis Unit.
- 2. Remove the VCR Main C.B.A.
- 3. Place the Mechanism Chassis and Cassette Up Ass'y upside down.
- Remove Black Screw (A) and the Earth Plate Unit.
- 5. Remove 3 Screws (B).
- 6. Place the Mechanism Chassis and Cassette Up Ass'v in a normal position.
- 7. Remove 2 Screws (C) and then lift the D.D. Cylinder Unit and Head Amp Ass'y slowly from the top side.

Note:

Since there is very little clearance between the D.D. Cylinder Unit and the chassis, remove the D.D. Cylinder Unit gently and carefully.

- 8. Unsolder P3502 and P3503 on the Head Amp Ass'y and then remove the Head Amp Ass'y from the D.D. Cylinder
- 9. Place the Mechanism Chassis and the Cassette Up Ass'y upside down.

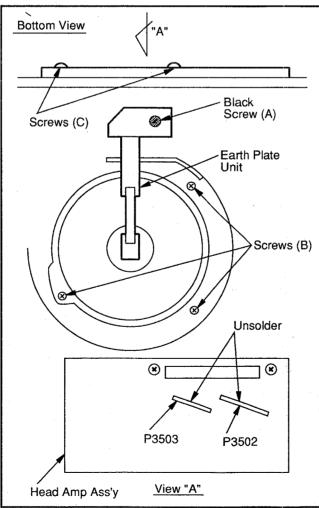


Fig. M5-1

Reinstall the new D.D. Cylinder Unit on to the chassis by reversing the procedure previously described.

Note:

1. Reinstall the new D.D. Cylinder Unit so that the 2 projections on the Cylinder Base meet the 2 holes on the lower surface of the D.D. Cylinder. Then fit the new D.D. Cylinder Unit to the chassis by turning it (refer to Fig. M5-2). Hold the D.D. Cylinder with extreme care so as not to touch the Heads or the tape path on the Cylinder. If any of these parts are touched, then clean them with a deerskin swab (Head Cleaning Stick) saturated with Ethanol.

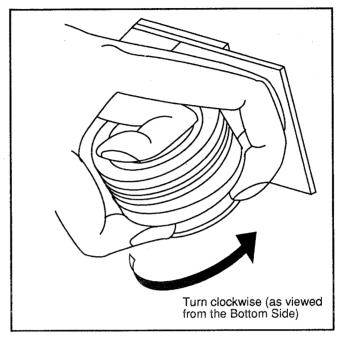


Fig. M5-2

- 2. Upon completion of the replacement procedure, be sure that the D.D. Cylinder Unit works. If any further maintenance is required, perform "TAPE INTERCHANGEABILITY" with the alignment tape (VFMS0001H6).
- 3. Adjustment of the Earth Plate Unit is required after installation. Refer to Item 3 below.

3. CONFIRMATION OF GROUNDING PLATE INSTALLATION POSITION

To optimize the position of the Earth Plate Unit.

Symptom of Misadjustment:

May cause Cylinder rotating buzz.

Remove the Mechanism Unit. Place it upside down. Check to see if the Earth Plate Unit is properly set in a position just less than 1mm (but not more than 1mm), as measured from the center of the plate to the center of the Cylinder Shaft as shown in Fig. M6. If required, adjust the Earth Plate Unit position by loosening Black Screw (A).

Never install the Earth Plate Unit in the opposite position (on the left side of the center of the Cylinder Shaft), but always within a maximum of 1mm to the right side of the center of this shaft.

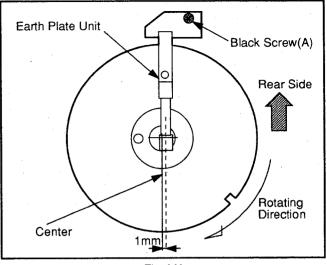


Fig. M6

4. POSITION ADJUSTMENT OF TENSION POST (PRELIMINARY)

Purpose

To feed a constant tension to the tape so that the tape runs with stability, by performing a preliminary adjustment.

Symptom of Misadjustment:

- 1) If the adjusted value is below the specification, the tape tension is not sufficient, thus causing a tape slack to
- 2) If the adjusted value is above the specification, the tape tension is too high, thus causing tape damage to occur.

*Equipment Required: 2mm Hex. Wrench (Purchase Locally)

- 1. Place the Unit in the Service Position (1).
- 2. Then remove the Cassette Up Ass'y
- 3. Place a jumper between TP6001 and GND.
- 4. Turn ON the Power Switch and press the Play Button to complete the loading operation sequence.
- 5. As soon as loading is completed, insert the Hex. Wrench(2mm) into the Tension Band Fastener and adjust it (only counterclockwise) as indicated by the arrow so that the outside edge of the Tension Post lines up with the outside of the P1 post. (See Fig. M7)
- 6. Remove the Hex. Wrench (2mm).
- 7. Press the Stop/Eject Button to complete the unloading operation Sequence.
- 8. Remove the jumper between TP6001 and GND.
- 9. Reinstall the Cassette Up Ass'y and cabinet parts.

8-C. CONFIRMATION OF TILT OF A/C HEAD

Purpose:

To confirm that the tape runs is smoothly. In particular, confirm that the tape properly picks up the Audio Signal at the upper part of the head and the Control Signal at the lower part of the head.

Symptom of Misadjustment:

If the tilt of the A/C Head is poorly adjusted, the tape will eventually be damaged. An intermittent Blue screen may be seen in Playback.

- Play back a T120 Cassette tape and confirm that the tape runs properly between the lower and upper limits of the P4 post. Also confirm that the tape runs smoothly.
- If adjustment is required, turn Black Screw (B), shown in Fig. M13, clockwise until curling is apparent at the lower edge of P4. Then turn Black Screw (B) counterclockwise until the curling smooths out.

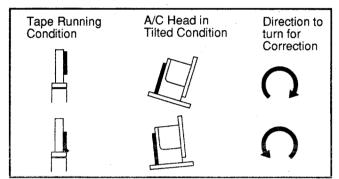


Fig. M14

8-D. AZIMUTH ADJUSTMENT OF A/C HEAD

Purpose :

To adjust the position and height of the A/C Head so that it meets the tape tracks properly.

Symptom of Misadjustment:

If the position of the A/C Head is not properly adjusted, the Audio S/N Ratio is poor.

- Connect the oscilloscope to the audio output jack on the rear side of the deck.
- 2. Play back the monoscope portion (6KHz, Mono) of the alignment tape (VFMS0001H6).
- 3. Adjust Black Screw (C) on the head base, shown in Fig. M13, so that the output level is at maximum.

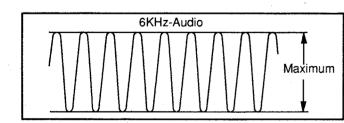


Fig. M15

- Readjust Black Screw (A), shown in Fig. M13, for maximum output.
- 5. Disconnect the oscilloscope.

8-E. HORIZONTAL POSITION ADJUSTMENT OF A/C HEAD

Purpose:

To adjust the Horizontal Position of the A/C Head.

Symptom of Misadjustment:

If the Horizontal Position of the A/C Head is not properly adjusted, a maximum envelope cannot be obtained at the Neutral Position of the Tracking Control Circuit.

Place a jumper between TP6003 and +5V(TP6009) on the System Control Section of the VCR Main C.B.A. to defeat Auto Tracking.

- Eject the tape and insert it again, to access the Neutral Tracking position. Connect the oscilloscope to TP3002 on the Video Signal Process Section of the Main C.B.A. Use TP6205 as a trigger.
- Play back the monoscope portion of the alignment tape (VFMS0001H6) and confirm that the RF envelope appears, as in Fig. M17-1.
- 3. If adjustment is required, loosen the Black Screw with 2 Washers (D) and tighten the Screw lightly. Set the H-Position ADJ. Screwdriver into the Hole (E) shown in Fig. M16. Then slowly turn the fixture either clockwise or counterclockwise so that the envelope is at maximum.

Model : A, B, C, D, E, F, G

- 4. Tighten the Black Screw with 2 Washers (D).
- 5. Remove the Jumper between TP6003 and +5V(TP6009).

 Model: H
- Before finding the center of the maximum period of the envelope, rotate the fixture back and forth slightly to confirm the limits on either side of the maximum period.
- Push the Tracking Control Up Button (on the IR Transmitter) several times (count the number of times pushed) until the maximum envelope is reduced to 1/2.
- Reset the tracking to the neutral position by ejecting the tape and reinserting it. Push the Tracking control DOWN Button (on the IR Transmitter) several times (count the number of ties pushed) until the maximum envelope is reduced to 1/2.
- 7. If the number of pushes is not the same, then loosen the Black Screw with 2 Washers (D) and set the H-Position ADJ. Screwdriver into the Hole (E) shown in Fig. M16. Then find the center point. Then repeat the above procedure to determine the center point.
- 8. Tighten the Black Screw with 2 Washers (D).
- 9. Remove the Jumper between TP6003 and +5V(TP6009).

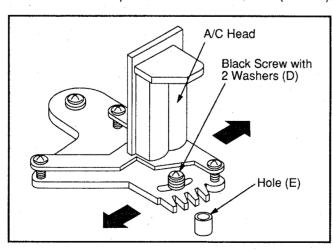


Fig. M16

8-F. CONFIRMATION/ADJUSTMENT OF ENVELOPE OUTPUT

Purpose:

To achieve a satisfactory picture and secure precise tracking.

Symptom of Misadjustment:

If the envelope is output poorly, much noise will appear in the picture. Then the tracking will lose precision and the playback picture will be distorted by any slight variation of the tracking control circuit.

Place a jumper between TP6003 and +5V(TP6009) on the System Control Section of the VCR Main C.B.A. to defeat Auto Tracking.

- Eject the tape and insert it again, to access the Neutral Tracking position. Connect the oscilloscope to TP3002 on the Video Signal Process Section of the VCR Main C.B.A. Use TP6205 as a trigger.
- Play back the monoscope portion of the alignment tape (VFMS0001H6). Adjust the height of posts P2 and P3 while watching the scope display so you can make the envelope as flat as possible. (V1/V-max≥0.7, V2/V-max≥0.8)

If adjustment is required, turn the top of the post with a Post Adjustment Screwdriver. For adjustment of P2 and P3, refer to Item 8-A and its Note.

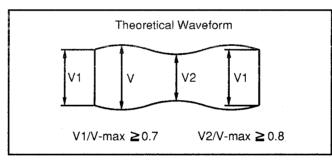


Fig. M17-1

 When the scope display is as shown in Fig. M17-2, adjust the height of P2 so that the waveform looks like the one shown in Fig. M17-4.

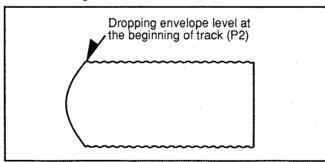


Fig. M17-2

4. When the scope display is as shown in Fig. M17-3, adjust the height of P3 so that the waveform looks like the one shown in Fig. M17-4.

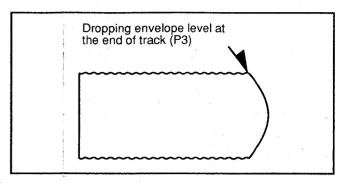


Fig. M17-3

5. When P2 and P3 are adjusted properly, there is no Envelope Drop at the beginning or end of the track as shown in Fig. M17-4. Remove the jumper wire.

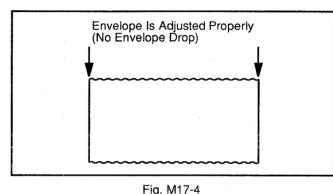


Fig. i

Note

Upon completion of the adjustment of P2 and P3, tighten the Black Lock Screws on P2 and P3 using the Lock Screw Wrench. Then confirm the Horizontal Position of the A/C Head by pushing the Tracking Control Up or Down Buttons alternately, using the IR Wireless Transmitter Unit, to check the symmetry of the envelope. If required, perform "Horizontal Position Adjustment of A/C Head.

9. ADJUS

Purpose: To properly

Symptom of Mi

cannot be ac

* Specification

* Specification

Oscilloscope

1. Remove the down.

2. Remove the

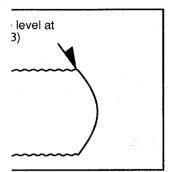
3. Slightly loose (#1 or #2 Ph Fig. M18. Tu FG Head tou the clearance

4. Tighten 2 Bid 5. Reinstall the

Capstan

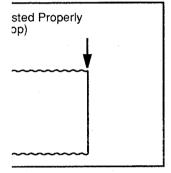
Note:

Do not to surface wiferom the ro shown in Fig. M17-3, adjust aveform looks like the one



7-3

d properly, there is no ng or end of the track as the jumper wire.



7-4

ustment of P2 and P3, tighten P2 and P3 using the Lock rm the Horizontal Position of the Tracking Control Up or ly, using the IR Wireless he symmetry of the envelope. ontal Position Adjustment of

9. ADJUSTMENT OF FG HEAD GAP

Purpose:

To properly pick up the FG Signal.

Symptom of Misadjustment:

If the FG Signal is not properly picked up, Servo Operation cannot be achieved.

* Equipment Required : Oscilloscope

- Remove the VCR Chassis Unit and then place it upside down.
- 2. Remove the VCR Main C.B.A.
- Slightly loosen 2 Black Screws (A) and set the Screwdriver (#1 or #2 Phillips Driver) into the Hole (B) shown in Fig. M18. Turn the screwdriver counterclockwise until the FG Head touches the rotor. Then turn it slightly clockwise to the clearance as specified.
- 4. Tighten 2 Black Screws (A) shown in Fig. M18.
- 5. Reinstall the VCR Main C.B.A.

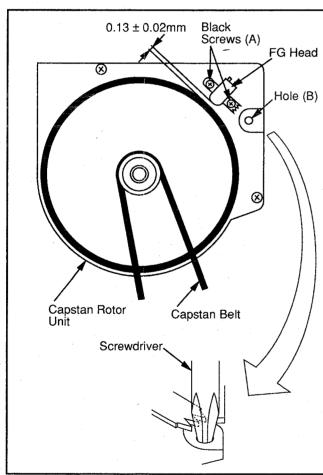


Fig. M18

Note:

Do not touch the outside circumference of the rotor surface with any tool and keep magnetic material away from the rotor magnet (especially metal particles).

(Confirmation)

- 1) Supply a Video Signal to the Video Input Jack on the rear side of the deck.
- Insert a cassette tape and place the unit in SLP recording mode.
- Connect the oscilloscope to Pin 12 and 13 of P2502 on the Capstan Motor Drive C.B.A.
 Confirm that the signal level is greater than 10mVp-p.

10. REPLACEMENT OF CAPSTAN ROTOR OR STATOR UNIT

- 1. Remove the Capstan Belt (Fig. M18).
- In the order described in the Disassembly and Assembly Procedures of Mechanism section, remove the Motor Block Ass'y.
- 3. Carefully pull out the Capstan Rotor Unit. Be careful not to lose the 2 Oil Seals shown in Fig. M19.

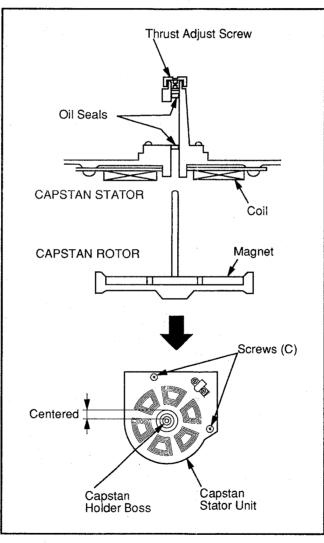


Fig. M19

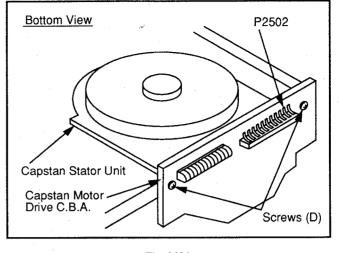


Fig. M20

- Carefully unsolder P2502 on the Capstan Motor Drive C.B.A. Then remove the Capstan Motor Drive C.B.A. by removing 2 Screws (D) shown in Fig. M20.
- Remove 2 Screws (C) and then lift out the Capstan Stator Unit.
- 6. Install the new Capstan Stator Unit and then tighten 2 Screws (C).

Note:

When reinstalling the Capstan Stator Unit, the Capstan Holder Boss must be centered within the hole in the Capstan Stator Unit.

- 7. Before installing the new Capstan Rotor Unit, loosen the Thrust Adjust Screw completely.
- Install the new Capstan Rotor, carefully inserting the Oil Seals as shown in Fig. M19.

Important : See Caution Note below.

Caution Note:

- The replacement Capstan Rotor Unit is available only as a complete unit with a spring loaded Capstan Pulley
- 2) Hold the new Capstan Rotor Unit firmly when installing it, so the rotor will not be pulled toward the stator too quickly (due to magnetic force). Placing some paper on the coils before rotor installation may prevent accidental damage to the coils if the above caution is not observed.
- During installation, do not touch the Capstan Shaft with any hard material like drivers or tweezers.
- Re-install the Capstan Motor Drive C.B.A. by tightening 2 Screws (D). Then carefully solder P2502 and re-install the Motor Block Ass'y.

------ ADJUSTMENT OF THRUST ADJUST SCRE AND OIL SEALS ------

- Re-install the Capstan Belt and, while exerting preto turn the Clutch Unit, tighten the Thrust Adjust S slowly until the Capstan Rotor just starts turning.
- At the point where the Capstan Rotor starts turnin tighten the Thrust Adjust Screw another 180° cloc
- 12. Upon completion of the above procedure, confirm the Oil Seals are positioned as shown in Fig. M21 and sure that the oil seal does not contact the Pressur Roller or P5 Arm Unit. Then, wipe off the Capstan Shaft to remove oil, grease, and dust.

Note:

- During production, the Lower Oil Seal is position form above the bushing as shown in Fig. M21. servicing, the seal should be either 6mm or justice above the bushing.
- Clean the Capstan Post whenever an Oil Sea moved.

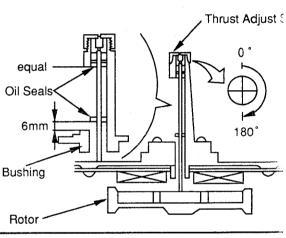


Fig. M21

11. DISASSEMBLY/ASSEMBLY PROCEDURES OF **MECHANISM**

This procedure starts with the cabinet parts, VCR Main C.B.A., and Cassette Up Ass'y already removed. Also, all the following procedures for adjustment and parts replacement should be done in EJECT Mode. When reassembling, follow the step(s) in reverse order.

.0.0.00		·				
STEP /LOC. No.	START -ING No.	PART		Fig. No.	REMOVE	INSTALLATION (ADJUSTMENT INFORMATION)
1	1:	PINCH CAM CAP	T	DM1 DM3	(L-1)	
2	1	PRESSURE ROLLER ARM UNIT	Т	DM1 DM3	<note 1=""></note>	(+)
3	1	P5 SECTOR GEAR	T	DM1 DM4	(C-1), <note 2=""></note>	(+) See Alignment Procedure for Mechanism, Item 12-5.
4	3	PINCH CAM	l T	DM1 DM3		(+) See Alignment Procedure for Mechanism, Item12-5.
5	4	P5 ARM UNIT	T	DM1 DM4	(N-1), (W-1), (P-1)	(+) See Height Adjustment P5 Arm Unit.
6	6	A/C HEAD UNIT	l T	DM1 DM5	(S-1), (S-2), 2(W-2) (W-3), (W-4),P1541	(+) See Horizontal Position Adjustment of A/C Head.
7	7	OPENER ANGLE	T	DM1 DM6	(S-3), (S-4), (S-5)	
8	7	CAM FOLLOWER ARM UNIT	 T	DM1 DM6	(L-2)	(+) <note 3=""> See Installation Procedure of CAM FOLLOWER ARM UNIT, Item 12-4.</note>
9	9	BRAKE ASS'Y	T	DM1 DM7	2(P-2), (P-3), 2(L-3), 2(L-4)	(+) See Setting Condition in Fig. DM7.
10	10	TENSION ARM UNIT	T	DM1 DM8	(P-4), (L-5)	(+) See Position Adjustment of Tension Post.
A	B	<u>.</u>	(E	F	©

How to read chart shown above :

(A): Order of steps in Procedure

When reassembling, perform the step(s) in the reverse order.

These numbers are also used as the identification (location) No. of parts in Figures.

(B): Starting No. followed by corresponding part which can be removed at this stage. See example below.

Example: The pinch Cam Cap can be removed without removing any other parts because the STEP/LOC. No. and the STARTING

But the Pressure Roller Arm Unit can be removed only after removing the Pinch Cam Cap(No. 1)

(C): Part to be removed or installed.

(D): Location of part.

B=Bottom

(E): Fig. No. showing Procedure or Part Location.

F: Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or unsoldered.

(P-1) = Spring(P-1);

3(S-1) = 3 Screws(S-1);

3(W-1) = 3 Washers(W-1);

(C-1) = Cut Washer(C-1); (N-1) = Nut(N-1);

2(L-1) = 2 Locking Tabs(L-1)

G: Adjustment information for installation. (+): Refer to Exploded Views for Lubrication Information.

STEP /LOC. No.	START -ING No.	PART		Fig. No.	REMOVE	INSTALLATION (ADJUSTMENT INFORMATION)
11)	11	TAKEUP REEL TABLE UNIT	Т	DM1	*(L-6)	(+) <note 4=""> See Height Adjustment of</note>
12	12	SUPPLY REEL TABLE UNIT	Т	DM1	*(L-7)	Reel Tables.
13	13	CASSETTE DOWN DETECT PIECE	В	DM2		<u></u>
14)	14	MOTOR BLOCK ASS'Y	В	DM2 DM9	Unsolder, 2(S-6)	
15	15	CLUTCH UNIT	В	DM2 DM10	(C-2), <note2> Capstan Belt</note2>	(+)
16	16	P.C.B. BRACKET	В	DM2	(S-7)	
17	14	SECONDARY ROD UNIT	В	DM2 DM11	*(P-5)	(+)
18)	17	MAIN ROD	_В	DM2 DM12	(C-3),*2(L-8) <note 2=""></note>	(+) See Alignment Procedure for Mechanism, Item12-2
19	18	LOADING ARM T UNIT	В	DM2 DM13		(+) See Alignment Procedure for
20	18	LOADING ARM S UNIT	В	DM2 DM13	*(L-9)	Mechanism, Item 12-1.
21)	21	P1 ROLLER	ΙT	DM1	(C-4), <note 2=""></note>	
22	3	CAPSTAN HOLDER UNIT	T	DM1	3(S-8)	(+) See Replacement of Capstan Rotor or Stator Unit.
23	23	CENTER BLOCK UNIT	 ^T	DM1	2(S-9)	:
24	24	CYLINDER BASE	T	DM1 DM15	3(S-13)	(+)
25	24	D.D. CYLINDER UNIT	в 	DM2 DM15	3(S-11),2(S-12) Unsolder, Head Amp Ass'y	See, Replacement of D.D. Cylinder Unit.
26	14	CAPSTAN ROTOR UNIT	в 	DM2 DM14		(+) See, Replacement of Capstan Rotor or Stator Unit.
27	26	CAPSTAN STATOR UNIT	 	DM2 DM14	3(S-14), Unsolder	See, Replacement of Capstan Rotor or Stator Unit.
28	24	LOADING POST BASE T UNIT	T I	DM1	Slide to rear to remove	(+)
29	24	LOADING POST BASE S UNIT	T	DM1	Slide to rear to remove	(*)

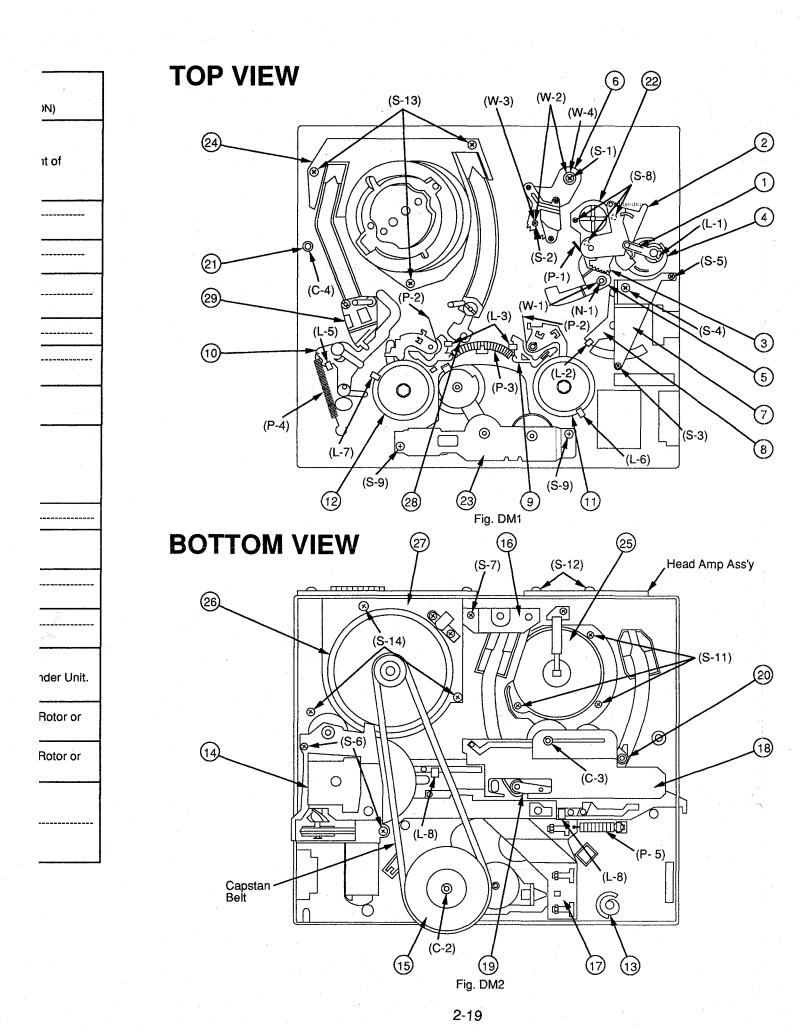
TOP V

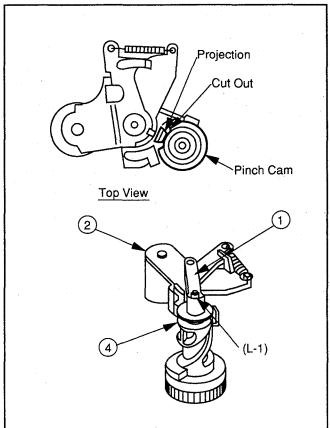


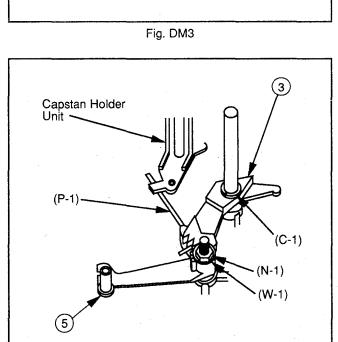


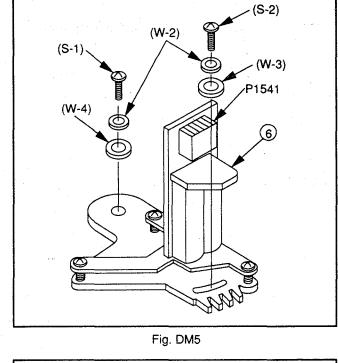
BOTT











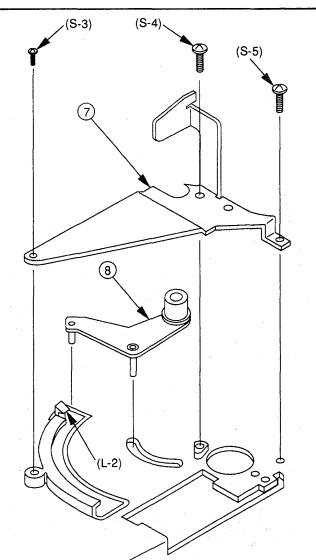


Fig. DM6

Fig. DM4

2-20

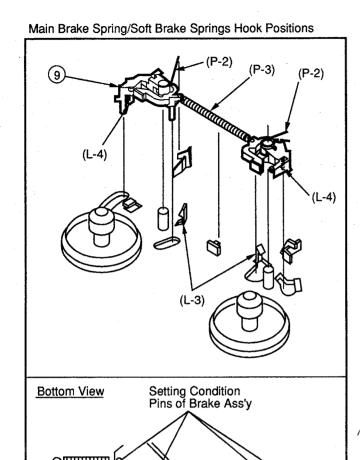


Fig. DM7

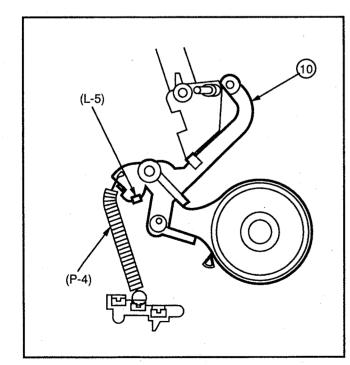


Fig. DM8

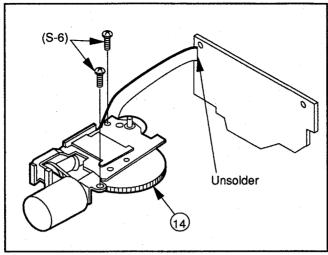


Fig. DM9

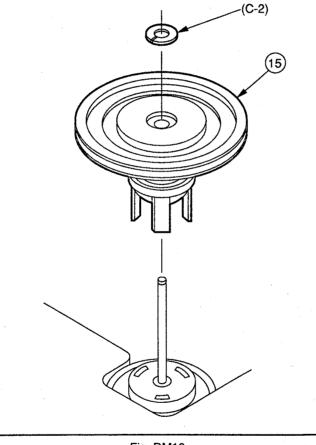
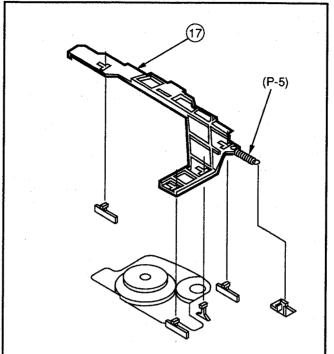


Fig. DM10



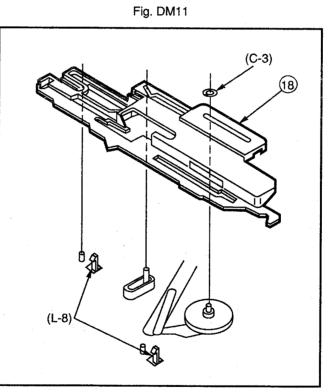


Fig. DM12

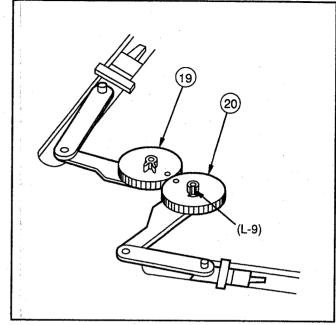


Fig. DM13

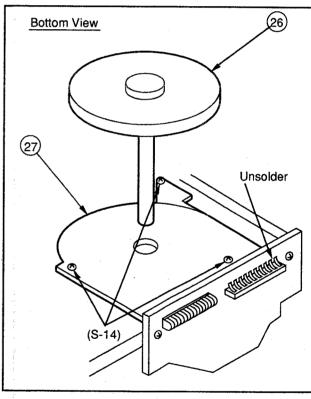
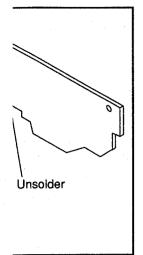
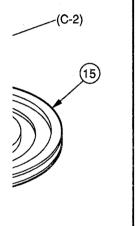


Fig. DM14





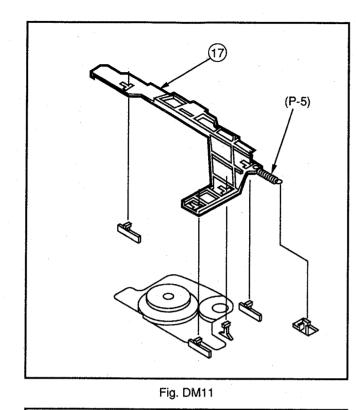
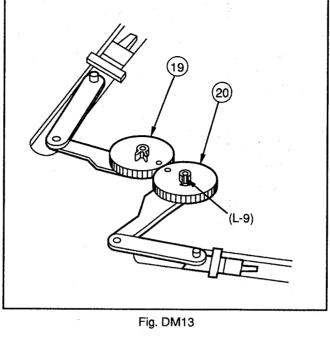
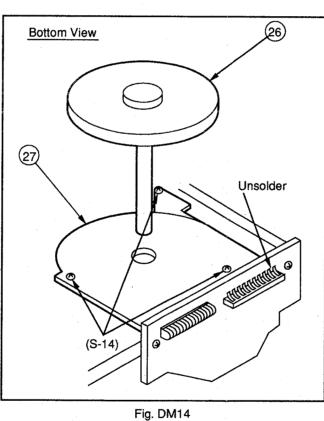


Fig. DM12





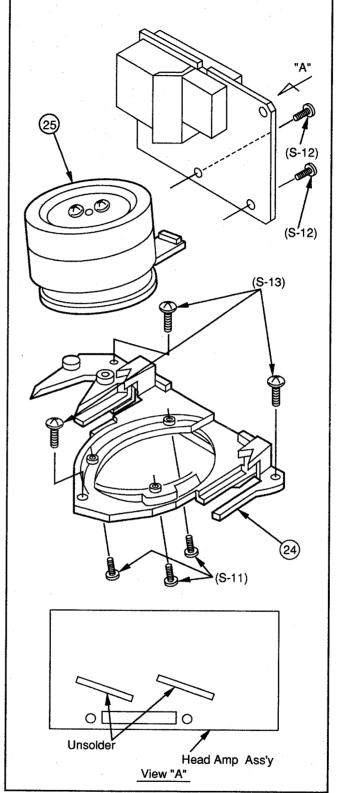


Fig. DM15

Reference <Notes> in Table 11:

- Before removing the Pressure Roller Arm Unit, turn the Loading Pulley of the Motor Block Ass'y. Then align the projection of the Pressure Roller Arm Unit and the cut of portion of the Pinch Cam.
- This cut washer is not reusable. If removed, install a new one.
- Install the Cam Follower Arm Unit so that the pin on the Cam Follower Arm Unit meets the inner slot of the Motor Bloc Ass'y.
- 4. When reinstalling the Supply and Takeup Reel Tables, clean the rotating surface on them with a soft cloth.

12. ALIGNMENT PROCEDURES OF MECHANISM

he mechanism of this model is mostly engaged to the system Control Circuit through the Mode Select Switch. herefore the connection between the Mode Select Switch and ne Cam Gear decides all further movement of the mechanical arts such as levers, gears, rollers, and so on. For specific emoval and installation procedures, refer to the Disassembly/ssembly Procedures on Page 2-17.

these parts are not properly aligned, even if off by only one both, the unit will be unloaded or stopped. It may result in lamage to the mechanical or electrical parts. This mechanical idjustment is performed in the Eject Mode. The details oncerning the mechanical condition will be described later.

mportant Note:

All through hole alignments must be made precisely so that the complete procedure will exactly align the gear teeth. If the alignment is off by only one tooth then the mechanism will not operate properly.

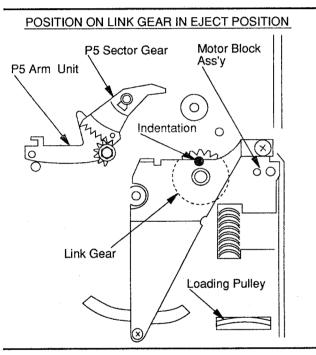


Fig. A1

1. The position of the Indentation on the Link Gear, after removing the Cassette Up Ass'y with the Motor Block Ass'y in the Eject Position, is shown in Fig. A1.

12-1. ALIGNMENT PROCEDURES OF LOADING ARM T UNIT AND LOADING ARM S UNIT

 Set the P2 and P3 posts to the unloading position. Then install the Loading Arm T Unit and the Loading Arm S Unit so that the hole on the Loading Arm T Unit is exactly in line with the hole on the Loading Arm S Unit.

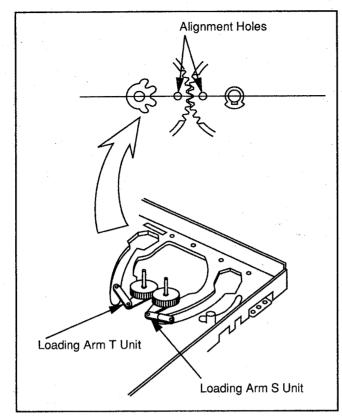


Fig. A2

12-2. ALIGNMENT PROCEDURES FOR MAIN ROD

 Install the Main Rod so that the line on the Main Rod aligns with the Shaft of the Loading Arm T Unit.
 Make sure the Shafts of the Brake Ass'y, and the Shaft of the Cam Follower Arm Unit are positioned as shown in Fig. A3.

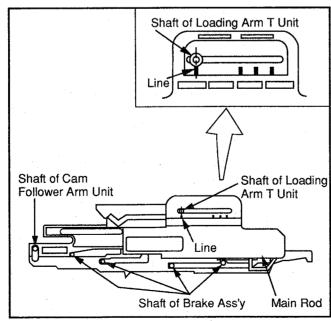


Fig. A3

12-3. ALIGNMENT PROCEDURES OF LINK GEAR, CAM GEAR, AND MODE SELECT SWITCH

- Install the Cam Gear so that the Indentation on the Cam Gear aligns with the Hole on the Link Gear.
- Install the Mode Select Switch so that the Hole on the Mode Select Switch aligns with the Indentation on the Cam Gear. Refer to Fig. A4.

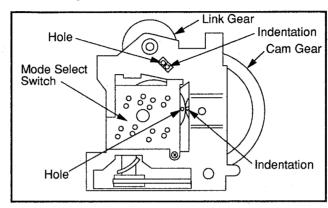
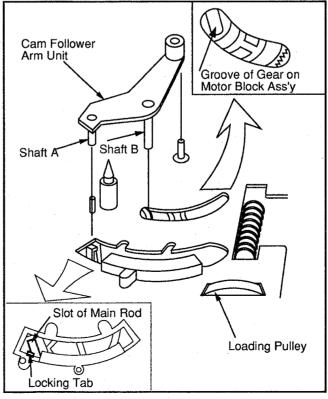


Fig. A4

12-4. INSTALLATION PROCEDURES OF CAM FOLLOWER ARM UNIT

- 1. Confirm that the Cassette Up Ass'y is in the Eject Position.
- Then install the Cam Follower Arm Unit, as shown in Fig. A5.
- 3. Confirm that Shaft A is installed into the slot of the Main Rod.4. Confirm that Shaft B is installed into the groove on the gear
- Confirm that Shaft B is installed into the groove on the gear of the Motor Block Ass'y at the point indicated by the arrow in Fig. A5.



12-5. ALIGNMENT PROCEDURES OF P5 ARM UNIT AND P5 SECTOR GEAR, PINCH CAM, AND LINK GEAR

- 1. When installing the Pinch Cam, confirm that the Link Gear of the Motor Block Ass'y is in the Eject Position.
- 2. Install the P5 Sector Gear and Pinch Cam simultaneously. The last tooth on the P5 Arm Unit must align with the hole on the P5 Sector Gear and the hole on the Pinch Cam must align with the Indentation on the Link Gear.

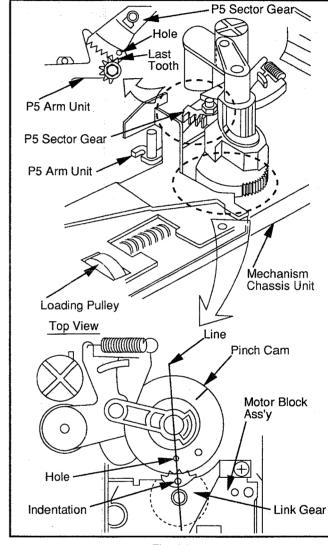
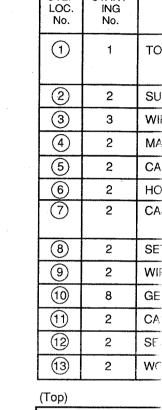


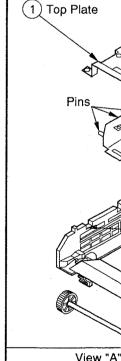
Fig. A6



13. DISASSEME

START

ADJUSTME



Main Shaft Unit

12-3. ALIGNMENT PROCEDURES OF LINK GEAR, CAM GEAR, AND MODE SELECT SWITCH

- 1. Install the Cam Gear so that the Indentation on the Cam Gear aligns with the Hole on the Link Gear.
- Install the Mode Select Switch so that the Hole on the Mode Select Switch aligns with the Indentation on the Cam Gear. Refer to Fig. A4.

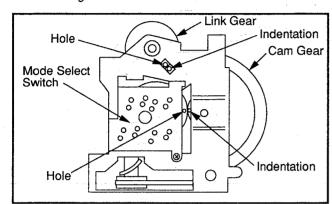


Fig. A4

12-4. INSTALLATION PROCEDURES OF CAM FOLLOWER ARM UNIT

Unit

)R

Rod aligns

Shaft of the

in Fig. A3.

of Loading

Nain Rod

Unit

Unit

- Confirm that the Cassette Up Ass'y is in the Eject Position.
 Then install the Cam Follower Arm Unit, as shown in
- Fig. A5.

 3. Confirm that Shaft A is installed into the slot of the Main Rod.

 4. Confirm that Shaft B is installed into the group on the goar
- Confirm that Shaft B is installed into the groove on the gear
 of the Motor Block Ass'y at the point indicated by the arrow
 in Fig. A5.

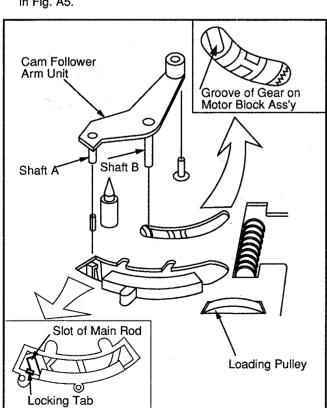
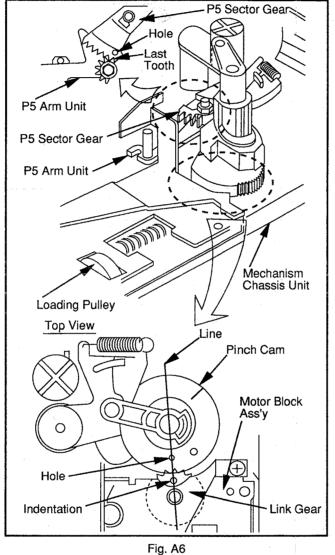


Fig. A5

12-5. ALIGNMENT PROCEDURES OF P5 ARM UNIT AND P5 SECTOR GEAR, PINCH CAM, AND LINK GEAR

- 1. When installing the Pinch Cam, confirm that the Link Gear of the Motor Block Ass'y is in the Eject Position.
- 2. Install the P5 Sector Gear and Pinch Cam simultaneously. The last tooth on the P5 Arm Unit must align with the hole on the P5 Sector Gear and the hole on the Pinch Cam must align with the Indentation on the Link Gear.



. ig. / io

13. DISASSEMBLY / ASSEMBLY AND ADJUSTMENT OF CASSETTE UP ASS'Y

When reassembling, follow the steps in reverse order.

STEP LOC. No.	START- ING No.	PART	Fig. No.	REMOVE	INSTALLATION (ADJUSTMENT INFORMATION)
1	1 .	TOP PLATE	DA1	(S-1), Grounding Plate,	
				4(L-1)	
2	2	SUB PLATE UNIT	DA2	4(L-2) (+)	
3	3	WIPER ARM -L	DA3	(L-6), Wiper Spring -L	(+) <note 1=""></note>
4	2	MAIN SHAFT UNIT	DA1		<note 2=""></note>
5	2	CASSETTE GUIDE	DA1		
6	2	HOLDER GUIDE -L	DA4	2(L-8) (+)	
7	2	CASSETTE HOLDER GUIDE R UNIT	DA4	2(L-9) (+)	
8	2	SET LEVER -L	DA4	2(L-10), Set Lever Spring	<note 3=""></note>
9	2	WIPER ARM R UNIT	DA2	(L-3)	(+) Align the hole. <note 4=""></note>
10	. 8	GENEVA GEAR UNIT	DA2	(L-7)	(+) Align the hole. <note 4=""></note>
11)	2	CASSETTE LEVER	DA2	(L-11)	
12	2	SENSOR COVER	DA2	(L-4)	
13	2	WORM WHEEL	DA2	(L-5)	(+) Hole at bottom.

(Top)

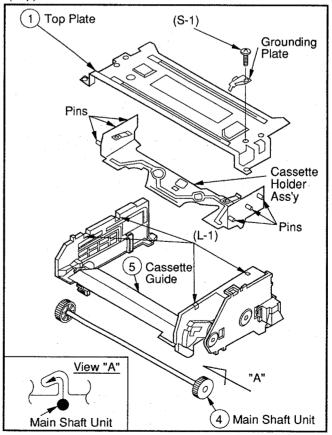


Fig. DA1

List of Abbreviations: (S-1) = Screw(S-1); 4(L-1)= 4 Locking Clips(L-1)

Reference <Notes> in Table 13:

- When installing Wiper Arm L onto Side Plate L, put the slot of Wiper Arm L into the pin of the Cassette Holder Ass'y in the Eject Position.
- 2. When installing the Main Shaft Unit, as shown in Fig. DA1, install the Main Shaft Unit in the direction shown by the arrow in view "A".
- 3. When installing Set Lever -L, as shown in Fig. DA4, fit the holes on the Set Lever over the hook of Holder Guide -L. Then hook the Set Lever Spring onto @ and @.
- 4. When installing Sub Plate -R onto Side Plate (R), put the slot of Wiper Arm -R over the pin of the Cassette Holder Ass'y in the Eject Position.

2-25

(Right Side)

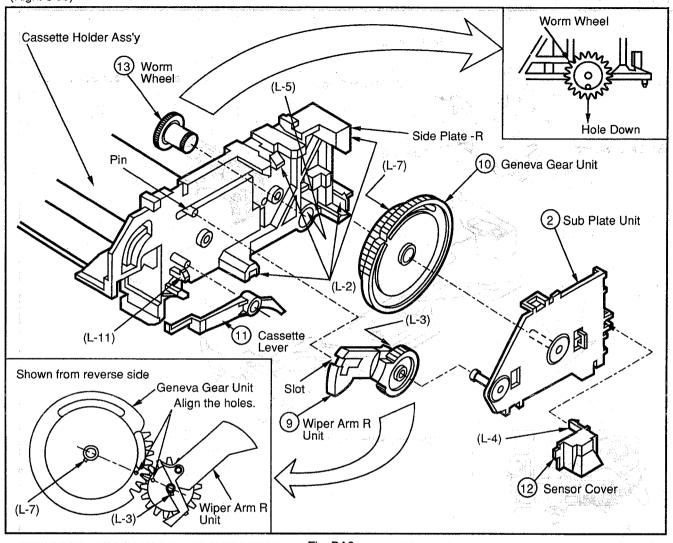


Fig. DA2

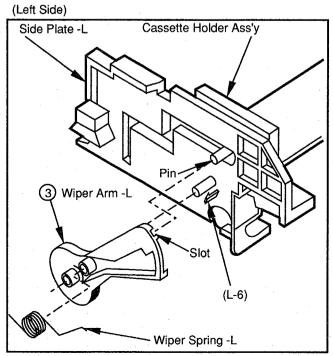


Fig. DA3

(Cassette Holder Ass'y)

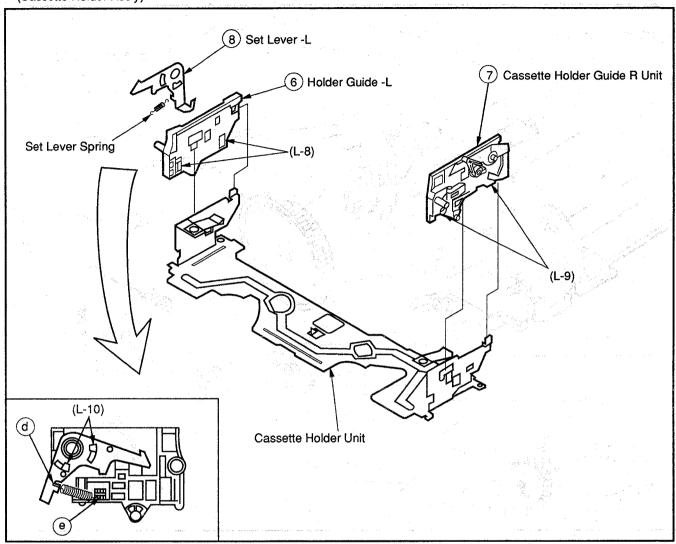


Fig. DA4

14. ADJUSTMENT OF CASSETTE UP ASS'Y AND CHASSIS

When reinstalling the Cassette Up Ass'y, the mechanical adjustment (alignment) described below should be done to ensure proper operation. Then, before reinstalling the Cassette Up Ass'y, be sure that the hole on the Wiper Arm R Unit is aligned with the hole on the Geneva Gear Unit (page. 2-27, Fig.DA2). The Cassette Holder Ass'y must be in the Eject Position.

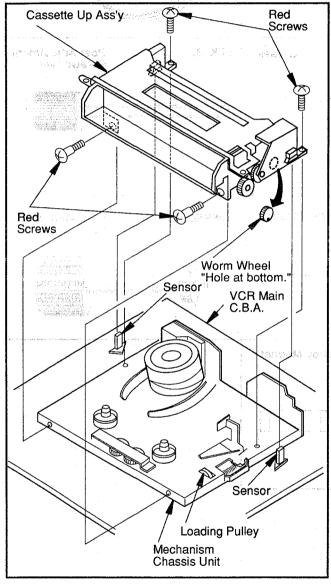
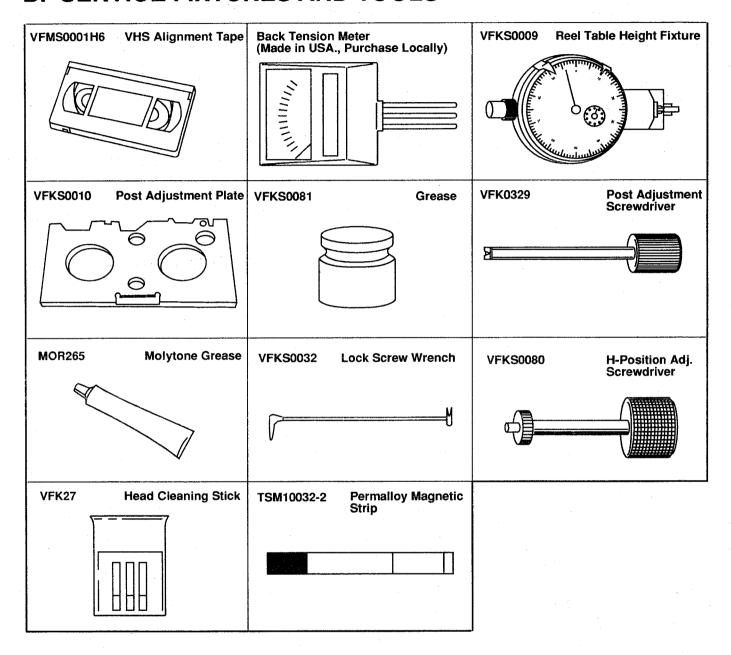


Fig. DA5

- Turn the Loading Pulley of the Motor Block Ass'y clockwise.
 Then be sure that the Mechanism is placed fully into the Eject position and maintain this position.
- Slowly install the Cassette Up Ass'y onto the chassis so that the worm wheel fits into the gear on the Motor Block Ass'y.
- Then confirm that the Sensors fits properly into the Sensor Covers.
- Confirm that the hole in the Worm Wheel is in the correct position. (See Fig. DA5)
- 5. Reinstall the 4 Red Screws as shown in Fig. DA5.
- Check the operation of the Cassette Loading Mechanism manually and then confirm proper operation with the power turned on.

B. SERVICE FIXTURES AND TOOLS



C. ELECTRICAL ADJUSTMENT PROCEDURES

1. TEST EQUIPMENT

To do all of these electrical adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

Voltage Range

0.001~50V/Div. DC~50MHz

Frequency Range Probes

: 10:1, 1:1

2. Signal Generator

Sinewave

: 0~10MHz

Frequency Counter

Frequency Range

: 0~150MHz

4. NTSC Video Pattern Generator 5. DVM(Digital Volt Meter)

Voltage Range

: 0.01~50V

6. Plastic Tip Driver and Non-Metal Driver

7. Lock Screw Wrench (VFKS0032)

8. Isolation Transformer (Variable)9. VHS Alignment Tape (VFMS0001H6)

10. White Pattern Generator

11. White Balance Meter

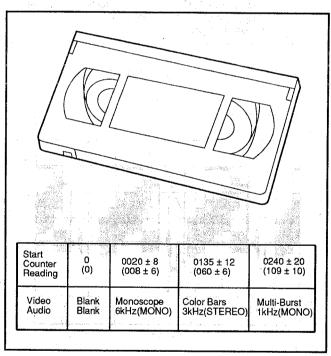


Fig. E1

2. HOW TO READ THE ADJUSTMENT **PROCEDURES**

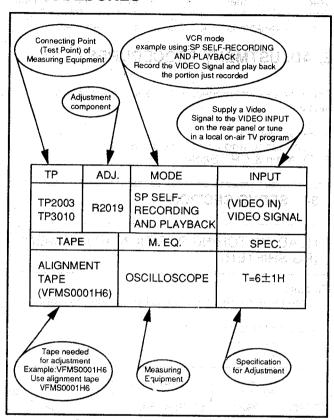


Fig. E2

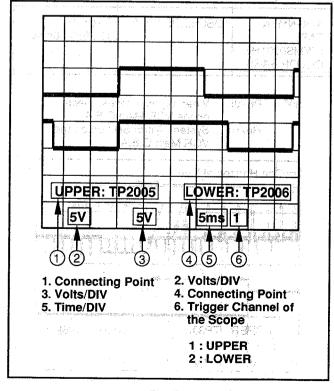


Fig. E3

Caution: Use an Isolation Transformer (Variable)

Because a Hot Chassis Ground is present in the Switched Mode Power Supply Circuit, an Isolation Transformer must be used. Also, in order to have the ability to increase the input voltage slowly, when troubleshooting this type of Power Supply Circuit, a variable Isolation Transformer is required.

3. ADJUSTMENT PROCEDURES

These adjustment procedures consist of the following sections.

- 1. Servo Section
- 2. Luminance and Chrominance Section 3. TV Main & CRT Section

3-1. SERVO SECTION

HEAD SWITCHING POSITION ADJUSTMENT (PG SHIFTER)

Purpose:

Determine the Head Switching Point during Playback.

Symptom of Misadjustment:

May cause Head Switching Noise and/or Vertical Jitter in the picture.

TP	ADJ.		MODE	INPUT
TP3001 TP6205	R6201		SP PLAYBACK	
TAPE			M.EQ.	SPEC.
ALIGNMENT TAPE (VFMS0001H6) COLOR BARS			SCILLOSCOPE	T=6±1H (0.38±0.06msec)

Note:

TP3001, TP6205: Video Signal Process Section

on the VCR Main C.B.A.

System Cotrol Section on the R6201:

VCR Main C.B.A.

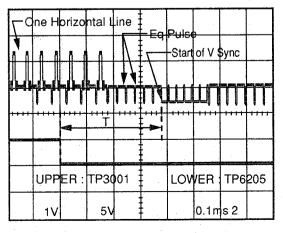


Fig. E4

3-2. LUMINANCE AND CHROMINANCE **SECTION**

3-2-1. E-E LEVEL ADJUSTMENT

Purpose:

Set the optimum E-E Level of the Luminance Component.

Symptom of Misadjustment:

The picture is sometimes too dark or too bright.

TP	ADJ.	MODE		INPUT
TP3001	R3014			(VIDEO IN) NTSC COLOR BAR W/WHITE WINDOW)
TAPE		M.EQ.	SPEC.	
	OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR			A=2.0 ± 0.1Vp-p

Note:

TP3001, R3014: Video Signal Process Section on the VCR Main C.B.A.

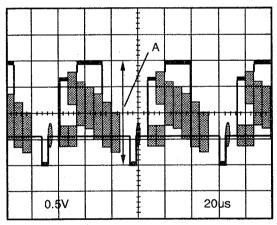


Fig. E5

3-2-2. SYNC TIP FREQUENCY AND DEVIATION ADJUSTMENT

Purpose:

To maintain the recording interchangeability by adjusting the Sync Tip Frequency and Deviation.

Symptom of Misadjustment:

Record interchangeability is inadequate.

Method 1

(SET UP)

 Connect a signal generator (sinewave) to TP3002 on the Video Signal Process Section of the VCR Main C.B.A. through a resistor (1ΚΩ).

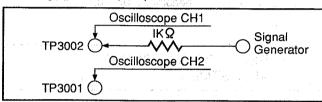


Fig. E6-1

- 2. Also, connect the oscilloscope CH1 to TP3002.
- Connect the oscilloscope CH2 to TP3001 on the Video Signal Process Section of the VCR Main C.B.A.
- Make sure that R3003(REC VIDEO LEVEL) and R3015(REC CHROMA) on the Video Signal Process Section of the VCR Main C.B.A. are not turned fully counterclockwise.

A-1-1. Sync Tip Frequency adjustment

	4 1178844	15 16 7		
TP	ADJ. MODE			INPUT
TP3002	R3010	Ayr Sec.		VIDEO IN) NTSC COLOR BAR W/WHITE WINDOW)
TAPE	74.7	M.EQ.		SPEC.
BLANK TAPE	OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR SIGNAL GENERATOR			Beat is at minimum.

Note:

TP3002, R3010 : Video Signal Process Section on the VCR Main C.B.A.

 After set up (1~4) is complete, set the frequency and the output level of the signal generator with the AC Plug NOT plugged in as follows;

Frequency: 3.5MHz Output level: 400mVp-p

(at TP3002•••Set oscilloscope (CH1) level with the AC Plug **NOT** plugged in.)

2. Adjust R3010(SYNC TIP FREQ) so that the beat is at minimum as shown in Fig. E6-2.

Note:

First, turn R3010 fully clockwise, then adjust R3010.

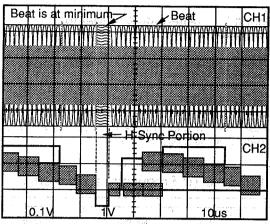


Fig. E6-2

A-2-1. Deviation adjustment

. TP	ADJ.	MODE 444	æ	INPUT
TP3002	R3011	SP REC		VIDEO IN) NTSC COLOR BAR W/WHITE WINDOW)
TAPE		M.EQ.		SPEC.
BLANK TAPE	OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR SIGNAL GENERATOR			Beat is at minimum.

Note

TP3002, R3011: Video Signal Process Section on the VCR Main C.B.A.

 Set the frequency and the output level of the signal generator with the AC Plug NOT plugged in as follows;

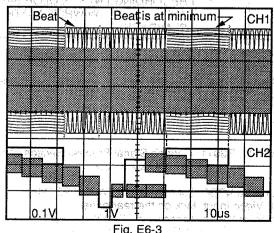
Frequency: 4.5MHz Output level: 400mVp-p

(at TP3002•••Set oscilloscope (CH1) level with the AC Plug **NOT** plugged in.)

2. Adjust R3011(DEVIATION) so that the beat is at minimum as shown in Fig. E6-3.

Note

First, turn R3011 fully clockwise, then adjust R3011.



 Set the frequency of the signal generator to 3.5MHz again. And confirm that the beat is at minimum as shown in Fig. E6-2. If not, readjust R3010(SYNC TIP FREQ). Method 2

(Alternative to Method 1)

Note:

Adjust Playback level before Deviation adjustment is performed as follows.

- 1. Connect the oscilloscope to TP3001.
- 2. Playback Color Bar portion of alignment tape.
- Adjust R3041 (PB LEVEL) so that the A level in Fig. E8 of Page 2-35 is 2.00 ± 0.15 Vp-p.

A-1-2. Sync Tip Frequency adjustment

TP	ADJ.	MODE	INPUT
TP3002	R3010 SP REC		
TAPE	N	I.EQ.	SPEC.
BLANK TAPE	OSCILLO NTSC VIE GENERA FREQUE COUNTE	DEO PATTERN TOR NCY	FREQUENCY is 3.5MHz ± 50KHz

Note

TP3002, R3010: Video Signal Process Section on the VCR Main C.B.A.

- Connect shorted Phono Plugs to the Video Input Jack on the rear panel. (Do not supply any VIDEO signal.)
- 2. Connect the frequency counter to TP3002.
- 3. Make a recording in SP mode.
- Adjust R3010 (SYNC TIP FREQUENCY) so that the frequency is 3.5 MHz ± 50 KHz.

Note:

First, turn R3010 fully clockwise, then adjust R3010.

A-2-2. Deviation adjustment

TP	ADJ.	MODE	INPUT
TP3001	R3011	SP SELF- RECORDING AND PLAYBACK	(VIDEO IN) NTSC COLOR BAR (W/WHITE WINDOW)
TAPE	J.	M.EQ.	SPEC.
BLANK TAPE	OSCILLO NTSC VII GENERA	DEO PATTERN	A=2.00 ± 0.15Vp-p

Note

TP3001, R3011: Video Signal Process Section on the VCR Main C.B.A.

- Supply a NTSC Color Bar signal W/WHITE Window to the Video Input Jack on the rear panel.
- Connect the oscilloscope to TP3001.
- Set R3011 (DEVIATION) to the center position as shown in Fig. E6-4.

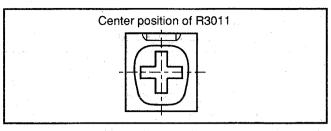


Fig. 6-4

- 4. Insert a cassette tape and make a recording in SP mode.
- 5. Playback the recording and confirm that the A level in Fig. E8 of Page 2-35 is 2.00 ± 0.15 Vp-p.
- If not, turn R3011 clockwise to decrease or counterclockwise to increase the level. Repeat the steps 4 to 6 until the A level becomes 2.00 ± 0.15 Vp-p.

3-2-3. RECORDING CURRENT ADJUSTMENT

First, adjust Rec chroma level then, Rec Video level.

A-1. REC CHROMA LEVEL ADJUSTMENT

Purpose:

Set the optimum Record Chroma Level.

Symptom of Misadjustment:

If the Record Chroma Level is too high, Beats may be seen in the picture. If the Level is too low, the Color may be degraded.

TP	ADJ.	MODE	INPUT
TP3002		SLP REC	(VIDEO IN) NTSC COLOR BAR (W/WHITE WINDOW)
TAPE		M.EQ.	SPEC.
BLANK TAPE	OSCILLO NTSC VII PATTER	the state of the s	Model: A,B,C,D,E,F,G A=56 ± 4mVp-p Model: H A=60 ± 4mVp-p

Note

TP3002, R3015,

(point (A), (B)): Video Signal Process Section on the VCR Main C.B.A.

 Connect TP3012 and +5V (TP+5V) with 100Ω resistor to eliminate luminance component.

(For early product)

Connect point A and +5V (point B) with 100 Ω resistor as shown in Fig. E7-1.

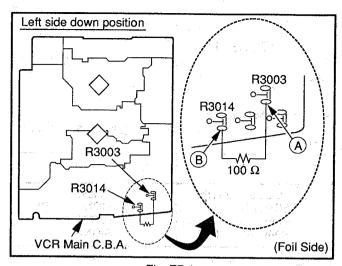


Fig. E7-1

- 2) Adjust R3015.
- Disconnect TP3012 and +5V (TP+5V) after this adjustment is complete.

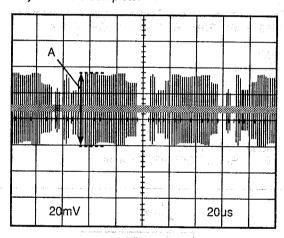


Fig. E7-2

A-2. REC VIDEO LEVEL ADJUSTMENT

Purpose:

Set the optimum Record Luminance Level.

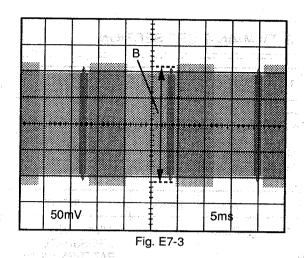
Symptom of Misadjustment:

If the record Luma Level is too high, Video may over load. If the Level is too low, the S/N Ratio deteriorates.

THE RESERVE OF THE PARTY OF THE	the transfer of the second of	or Armenia and Arm	were a supplication of the court of the control and control of the court of
TP	ADJ.	MODE	INPUT
TP3002	2. R3003	SLP REC	(VIDEO IN) NTSC COLOR BAR (W/WHITE WINDOW)
TAPE	**- N	1.EQ.	SPEC:
	OSCILLOS NTSC VIDE PATTERN (COPE	Model: A,B,C,D,E,F,G B=220 ± 10 mVp-p Model: H B=230 ± 10 mVp-p

Note:

TP3002, R3003: Video Signal Process Section on the VCR Main C.B.A.



3-2-4. PLAYBACK LEVEL ADJUSTMENT

Purpose:

To align the Playback Level of the Video Signal with the Recording (E-E) Level.

Symptom of Misadjustment:

Playback interchangeability is inadequate.

TP	ADJ.	MODE	51.11	INPUT
TP3001	R3041	SP SELF- RECORDING AND PLAYBACK		(VIDEO IN) NTSC COLOR BAR (W/WHITE WINDOW)
TAPE	M.EQ.			SPEC.
BLANK TAPE	OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR			A=2.00 ± 0.15Vp-p

Note:

TP3001, R3041: Video Signal Process Section on the VCR Main C.B.A.

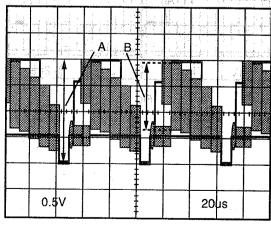


Fig. E8

Note:

Confirm that the Cyan level (B) is 1.26 ± 0.3 Vp-p.

3-3. TV MAIN & CRT SECTION

3-3-1. SUB CONTRAST ADJUSTMENT

Purpose:

To set the optimum Sub Contrast Level.

Symptom of Misadjustment:

The picture is too dark or too light.

TP	ADJ.	MODE	INPUT
TP13 or TP50	R325	STOP	(VIDEO IN) CROSSHATCH PATTERN SIGNAL
TAPE	M.EQ.		SPEC.
	OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR		Model: A, B, C, D A=1.9 ± 0.1Vp-p Model: E, F, G, H A=2.7 ± 0.1Vp-p

Note:

TP50: CRT C.B.A.

R325, TP13: TV Main C.B.A.

(SETUP)

Reset the control levels to the factory -set levels using the remote control.

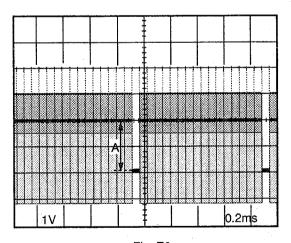


Fig. E9

3-3-2. FOCUS, SCREEN, CUT OFF, DRIVE ADJUSTMENT

Purpose:

To set the optimum Focus and Screen.

Symptom of Misadjustment:

The picture is out of Focus and there will be an improper screen color mix.

TP	ADJ.	MOD	E	INPUT
	FOCUS CONTROL SCREEN CONTROL R365, R363, R369, R370, R371	STOP		(VIDEO IN) MONOSCOPE PATTERN SIGNAL
TAPE	M.EQ.		,	SPEC.
	NTSC VIDEO PATTI GENERATOR	≣RN		efer to Descriptions clow

Note:

Focus Control, Screen Control: Flyback Transformer R363, R365, R369, R370, R371: CRT C.B.A.

(SETUP)

1. Controls

R363 (B-DRIVE VR) : Center

R365 (R-DRIVE VR) : Counterclockwise 30

degrees from center on Component Side,

refer to Fig. E10.

R369, R370, R371

(B-,G-,R- CUT OFF VR) : Center

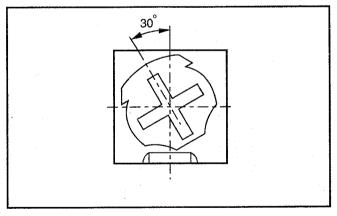


Fig. E10

- Adjust the Focus Control on Flyback Transformer to Sharpest Picture position.
- Turn the Screen Control on Flyback Transformer fully counterclockwise.
- 3. Set the Service Switch on the TV Main C.B.A. to Service Position.
- Turn the Screen Control on Flyback Transformer clockwise carefully and stop at the point where any color is first observed.

- 5. Adjust R369 (B-CUT OFF) and R371 (R-CUT OFF) so that the Horizontal line is white.
- 6. Set the Service Switch to the Normal Position.
- Adjust R324(SUB BRIGHTNESS) so that the picture has adequate brightness.
- 8. Adjust R365(R-DRIVE) and R363(B-DRIVE) so that the whole screen is white.

3-3-3. TINT ADJUSTMENT

Purpose:

To set the standard color phase.

Symptom of Misadjustment: Color phase will be shifted.

(SETUP)

Reset the control levels to the factory -set levels using the remote control.

The state of the s				
TP	ADJ.	MODE	ÎNPUT	
TP46B	R622	STOP	(VIDEO IN) RAINBOW COLOR BAR	
TAPE	M.EQ.		SPEC:	
	OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR		A:B=1:1	

Note:

TP46B, R622: TV Main C.B.A.

Turn R622 (SUB TINT) on the TV Main C.B.A. so that the waveform becomes A: B = 1:1.

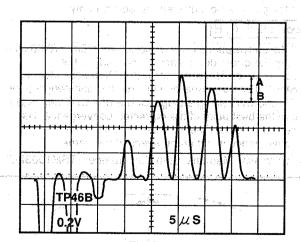


Fig. E11

3-3-4. PURITY ADJUSTMENT

Purpose:

To set the uniform white over the whole screen.

Symptom of Misadjustment:

The white screen will vary from area to area.

TP	ADJ.	MODE		INPUT
	Pair of 4-Pole Magnets, Pair of 6-Pole Magnets, Pair of Purity Magnets, Deflection Yoke	STC		(VIDEO IN) CROSSHATCH PATTERN SIGNAL & WHITE PATTERN SIGNAL
TAPE	M.EQ.		180	SPEC.
	NTSC VIDEO PATTERN GENERATOR/WHITE PATTERN GENERATOR DEGAUSSING COIL	~~	de	efer to scriptions below

Note

Pair of 4-Pole Magnets, Pair of 6-Pole Magnets, Pair of Purity Magnets, Deflection Yoke: CRT Unit

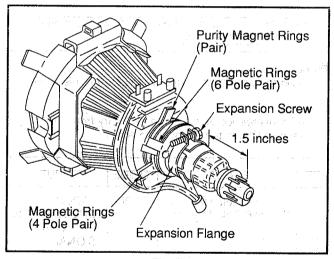


Fig. E12

- Mount and secure Deflection Yoke so that the rear edge of expansion flange is 1.5 inches from the tips of the CRT pins as shown in Fig. E12.
- 2. Supply the Crosshatch Pattern Signal.
- 3. Degauss the CRT by the Degaussing Coil.
- 4. Adjust the pair of 4 Pole Magnets so that B and R at the center of CRT overlap each other.
- Adjust the pair of 6-Pole Magnets so that B and R which overlapped each other in Step 4 overlap G.
- 6. Supply the White Pattern Signal.
- Remove the wedges from the CRT.
 Loosen the expansion screw on the Deflection Yoke, and move the Deflection Yoke toward the CRT.
- Turn the R370 (G-CUT OFF) fully counterclockwise. Adjust the pair of Purity Magnets so that the distorted color areas are approximately across from each other. Move the Deflection Yoke carefully backward (without rotating it), until the distorted color areas disappear from the screen.
- Supply Crosshatch Pattern Signal again. Confirm that the Center Bar is at the horizontal center line of the CRT and the V- Center Bar is at the vertical center line of the CRT. Then tighten the Expansion Screw.
- Set the Service Switch on the TV Main C.B.A. to Service Position. Adjust the R370 (G-CUT OFF) so that the Horizontal line is white.
- Set the Service Switch to Normal Position. Make sure that the whole screen is white. If not, adjust R365 (R-DRIVE) and R363 (B-DRIVE).

3-3-5. STATIC CENTRAL CONVERGENCE ADJUSTMENT

Purpose:

To set the uniform convergence over the whole screen.

Symptom

The convergence on the screen will vary from the center portion to the surrounding edges.

TP	ADJ.	МС	DDE	INPUT
	Pair of 4-Pole Magnets, Pair of 6-Pole Magnets	ST	OP	(VIDEO IN) CROSSHATCH PATTERN SIGNAL
TAPE	M.EQ.			SPEC.
	NTSC VIDEO PATTERN GENERATOR		Refer to descriptions below	

Note:

Pair of 4 - Pole Magnets,

Pair of 6 - Pole Magnets : CRT Unit

- 1. Adjust the Pair of 4 Pole Magnets so that B and R, at center of CRT overlap each other.
- Adjust the Pair of 6 Pole Magnets so that B and R which overlapped each other in step 1 overlaps G.

3-3-6. DYNAMIC CONVERGENCE ADJUSTMENT

Purpose:

To set the uniform convergence over the whole screen.

Symptom

The convergence on the screen will vary at the sides of CRT.

ТР	ADJ.	MODE	INPUT
	DEFLECTION YOKE	STOP	(VIDEO IN) CROSSHATCH PATTERN SIGNAL & WHITE PATTERN SIGNAL
TAPE	APE M.EQ.		SPEC.
	NTSC VIDEO PAT GENERATOR/WH PATTERN GENER		Refer to descriptions below

Note:

Deflection Yoke: CRT Unit

- 1. Supply the Crosshatch Pattern Signal.
- 2. Hold Deflection Yoke and wiggle it up and down to correct Crosshatch Pattern position (Refer to Fig. E13).
- 3. Hold Deflection Yoke and wiggle it right to left to correct Crosshatch Pattern position (Refer to Fig. E14).
- 4. Insert three wedges as shown in Fig. E15-1: Model A, B, C, D or Fig. E15-2: Model E, F, G, H to maintain the correct crosshatch pattern position.

(Confirmation of white)

- 1. Supply White Pattern Signal.
- 2. Confirm purity.
- 3. If the purity is not sufficient, re-adjust purity.

Model : E, F, G, H

- 4. If the convergence error is more than 1.5mm (0.06 inch) from the green dot at each corner, adjust the convergence at that corner with a Permalloy Magnetic Strip*. Insert a permalloy strip into the gap between the DY and CRT along a diagonal line of a CRT bell. Adjust it at the best point of the corrected convergence. Use a permalloy strip at each corner only when the convergence is out of the specs at the corner.
 - * Permalloy Magnetic Strip Part Number (TSM10032-2).

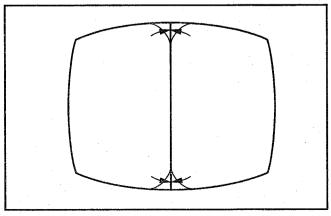


Fig. E13

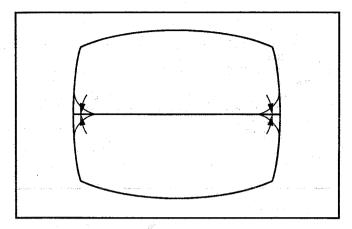


Fig. E14

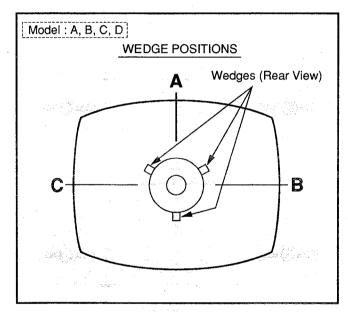


Fig. E15-1

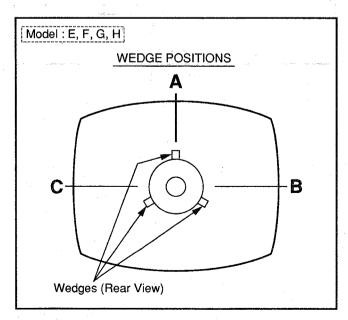


Fig. E15-2

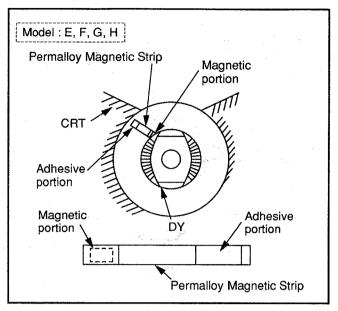


Fig. E16

3-3-7. VERTICAL HEIGHT ADJUSTMENT

Purpose:

To set the standard vertical picture size.

Symptom of Misadjustment : The picture size is on the vertical axis is abnormal.

TP	ADJ.		MODE	INPUT
R410, J92 (JUMPER L), J91 (JUMPER R)		STOP	(VIDEO IN) MONOSCOPE PATTERN SIGNAL	
TAPE		M.EQ.		SPEC.
		NTSC VIDEO PATTERN GENERATOR		Refer to Fig. E17-1 or Fig. E17-2

Note:

R410, J92 (JUMPER L), J91 (JUMPER R):TV Main C.B.A.

Model: A, B, C, D

- Adjust R410 (V-HEIGHT) so that the top 3rd line just disappears from the edge of the screen as shown in Fig. E17-1.
- Confirm that 9 th line is in view and 11th line is out of view.
 - If not, readjust R410(V-HEIGHT).
- If the picture is shifted right and the small circles in the corners do not maintain a perfect circle inside the screen, cut the J92 (Jumper L).
- If the picture is shifted left and the small circles in the corners do not maintain a perfect circle inside the screen, cut the J91 (Jumper R).

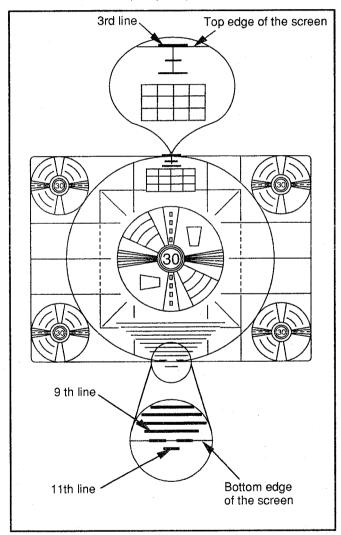


Fig. E17-1

Model: E, F, G, H

- Adjust the R410 (V-HEIGHT) so that the top 4th line just disappears from the edge of the screen. Then adjust so that the bottom 4th line is also out of view (Refer to Fig. E17-2).
- If the picture is shifted right and the small circles in the corners do not maintain a perfect circle inside the screen, cut the J92 (Jumper L).
- If the picture is shifted left and the small circles in the corners do not maintain a perfect circle inside the screen, cut the J91 (Jumper R).

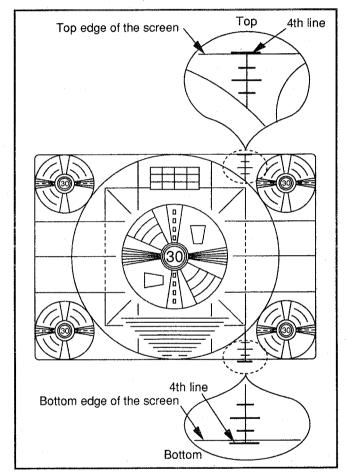


Fig. E17-2

3-3-8. WHITE BALANCE ADJUSTMENT

Purpose:

To set the standard white level for each color temperature.

Symptom of Misadjustment:

White becomes bluish or reddish.

	TP	ADJ.	MODE	INPUT
		R363, R365, R371, R369	STOP	(VIDEO IN) LUMINANCE PATTERN SIGNAL
-	TAPE	M.EQ.	SPEC.	
		NTSC VIDEO PA GENERATOR WHITE BALANCE	Refer to descriptions below	

Note

R363, R365, R371, R369 : CRT C.B.A.

(SETUP

 Set the following control levels using the remote control.

Color : Min. Tint : Center

Brightness : Center Picture : Max. Sharpness : Center

- Turn the Screen control on Flyback Transformer fully counterclockwise.
- 2. Set the Service Switch on the TV Main C.B.A. to Service Position.
- Turn the Screen control on Flyback Transformer clockwise carefully and STOP at the point where any colored Horizontal line is barely visible.
- Adjust the R369 (B-CUT OFF) and the R371 (R-CUT OFF) so that Horizontal line is white.
- 5. Set the Service Switch to the Normal Position.
- 6. Place the photo sensor foot for "JUST FIT" to the
- 7. Set the R324 (SUB BRIGHTNESS) so that the White Balance Meter (High-Light White, G Meter) is 80µA: Model A, B, C, D or 40µA: Model E, F, G, H
- Adjust R365 (R-DRIVE) and R363 (B-DRIVE) so that the White Balance Meter (both R & B Meters) is 0μA.
- Set the R324 (SUB BRIGHTNESS) so that the White Balance Meter (Cut OFF White, G Meter) is 50μA.
- 10. Adjust R371 (R-CUT OFF) and R369 (B-CUT OFF) so that the White Balance Meter (both R & B Meter) is
- Repeat the above adjustment of 2. to 3. until both R and B read 0 μ A in the High-Light and Low-Light Modes.

3-3-9. SUB BRIGHTNESS ADJUSTMENT

Purpose

To set the optimum brightness level.

Symptom of Misadjustment:

The picture is too white or too black.

(SETUP)

Reset the control levels to the factory -set levels using the remote control.

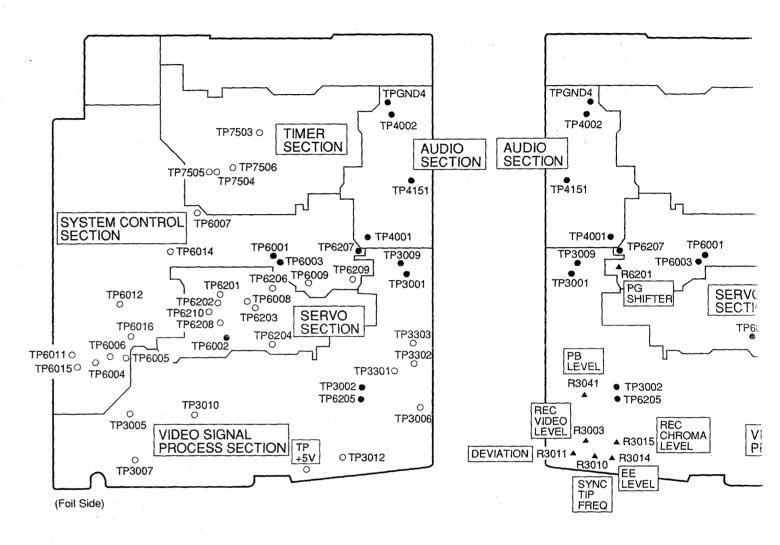
TP		ADJ.	MODE		INPUT
TPD1 TPD2	(+) (-)	R324	STOP	(VIDEO IN) CROSSHATCH PATTERN SIGNAL	
TAPE		M.EQ.			SPEC.
	NTSC VIDEO PATTERN GENERATOR DVM (DIGITAL VOLT METER)			Model: A,B,C,D 0.46 ± 0.02VDC Model: E,F,G,H 0.53 ± 0.02VDC	

Note

TPD1, TPD2, R324: TV Main C.B.A.

D. LOCATION OF TEST POINTS AND ADJUSTMENT POINTS

VCR Main C.B.A.

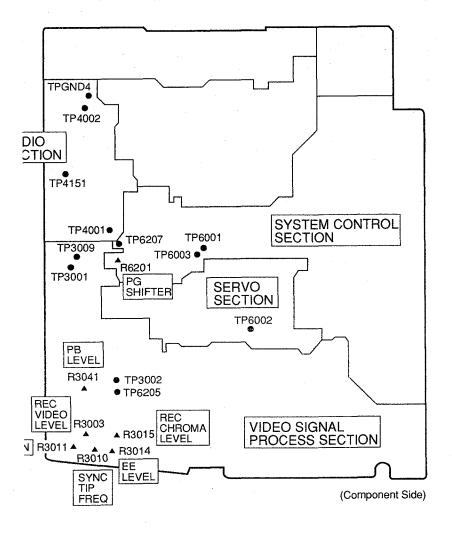


Test Point Information

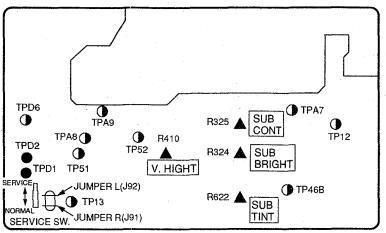
- Test Point with a Test Pin.
- O Test Point with no Test Pin.
- Test Point with a component lead.

JUSTMENT POINTS

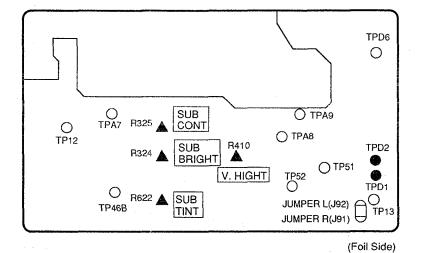
C.B.A.



TV Main C.B.A.



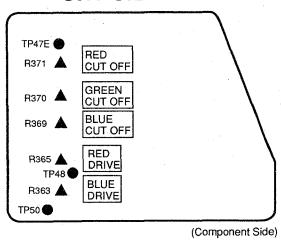
(Component Side)

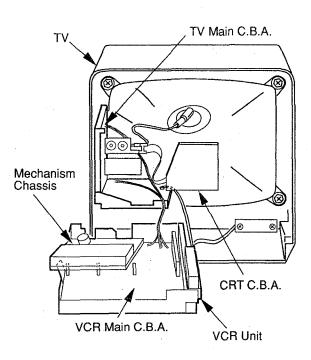


LEADED COMPONENTS LOCATION CHART FOR TV MAIN C.B.A.

ТР 🕽	Component Lead (Component Side)
TP12	R333
TP13	J57
TP46B	R603
TP51	D304
TP52	J10
TPA7	J22
TPA8	D558
TPA9	D560
TPD6	D553

CRT C.B.A.





III. SCHEMATIC DIAGRAMS

SCHEMATIC AND C.B.A. DIAGRAM NOTES

Important safety notice

Components identified by the sign \triangle have special characteristics important for safety. When replacing my of these components. Use only the specified parts.

Replacement parts

- Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list ,and may be slightly different or amended since this drawing was prepared.
- To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.
- Parts different in shape or size may be used.
 However, only interchangeable parts will be supplied as service replacement parts.

Test point information

- :Test point with a component lead on the foil side.
- :Test point with a component lead on the component side.
- :Test point with no test pin.
- Test point with a test pin.

How to read Schematic and C.B.A. Diagrams

1. The Mark " " " indicates leaded component.

Example: # R1002

2. How to read converged lines

(100)B4

Location grid number of the other end of the line
Line number

3. Voltage Measurement

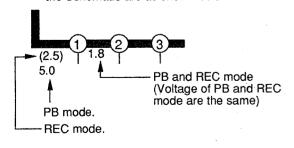
- 1. Voltage Chart
 - a. Color bar signal in SP mode.
 - b. - -: Unmeasurable or not necessary to measure.
- 2. Schematic Diagram
 - a. Audio Section

Monoscope signal in SP REC and PB mode.

b. Other Sections

Color bar signal in SP REC and PB mode.

Note: Voltage Indications for the REC and PB modes on the Schematic are as shown below.



4. How to identify Connectors on Schematic Diagrams

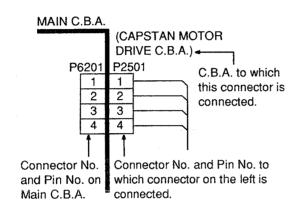
Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to ,in other words, its counter parr.

Connections between large P.C.B.s and small circuit boards are illustrated on the large P.C.B. Schematics.

Use the interconnection schematic diagram to find the connection between associated connectors.

Example

The connections between C.B.A.s are as shown below.



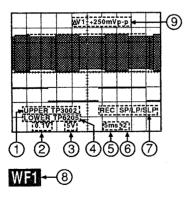
5. Indication for Zener Voltage of Zener Diodes

The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

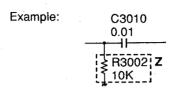
6. How to Read Waveforms



- Connecting Point
 Volts/Div
- 3 Volts/Div
- (3) Volts/Div(4) Connecting Point
- 5) Time/Div
- 6 Trigger Channel of the scope
- (1:UPPER,2:LOWER)

 7 Operation Mode of VCR
- Waveform Point on Schematic
- (9) ΔV1:Peak to Peak

Parts enclosed in dashed lines marked "Z" are not used in any models included in this service manual.



8. Reference No. on C.B.A. is abbreviated as follows.

Power Supply	1000 series	System Control	6000 series
Capstan	2500 series	Servo	6200 series
Cylinder		Timer	6300 series
Motor Drive	2600 series	/Operation	7500 series
Video	3000 series	Demodulator	7000 series
TBC	3200 series	S-VHS	8000 series
Audio	4000 series	CCV	8500 series
Hi-Fi Audio	4200 series		

Example:

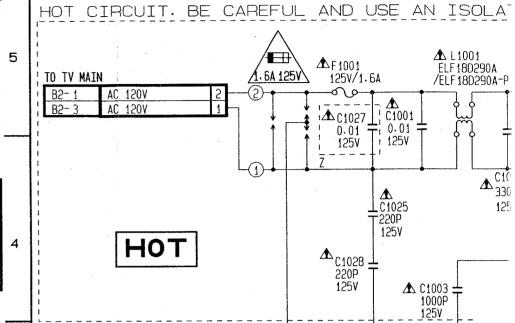
	Section	Reference No.		
		Schematic	C.B.A.	
	Power Supply	R1002	R2	
	Capstan	R2502	R2	
	Cylinder Motor Drive	R2602	R2	

Comparison chart of models & marks used _ in Schematic and C.B.A. Diagrams

MODEL	MARK	MODEL	MARK
PV-M1324	Α	PV-M2024	E
PV-M1324W	В	VV204	F
VV134	С	VV204W	G
VV134W	D	PV-M2044	Н
Not used in any models	Z		

Note: Refer to item 9 for mark "Z".

POWER SUPPLY SCHEMATIC [



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD.

REPLACE ONLY WITH THE SAME TYPE 1.6A 125V FUSE.

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES

D'INCENDIE N'UTILISER QUE DES FUSIBLE DE MEME

1.6A 125V

TYPE 1.6A 125V

NOTE: THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING TP1001 AS A COMMON TERMINAL.

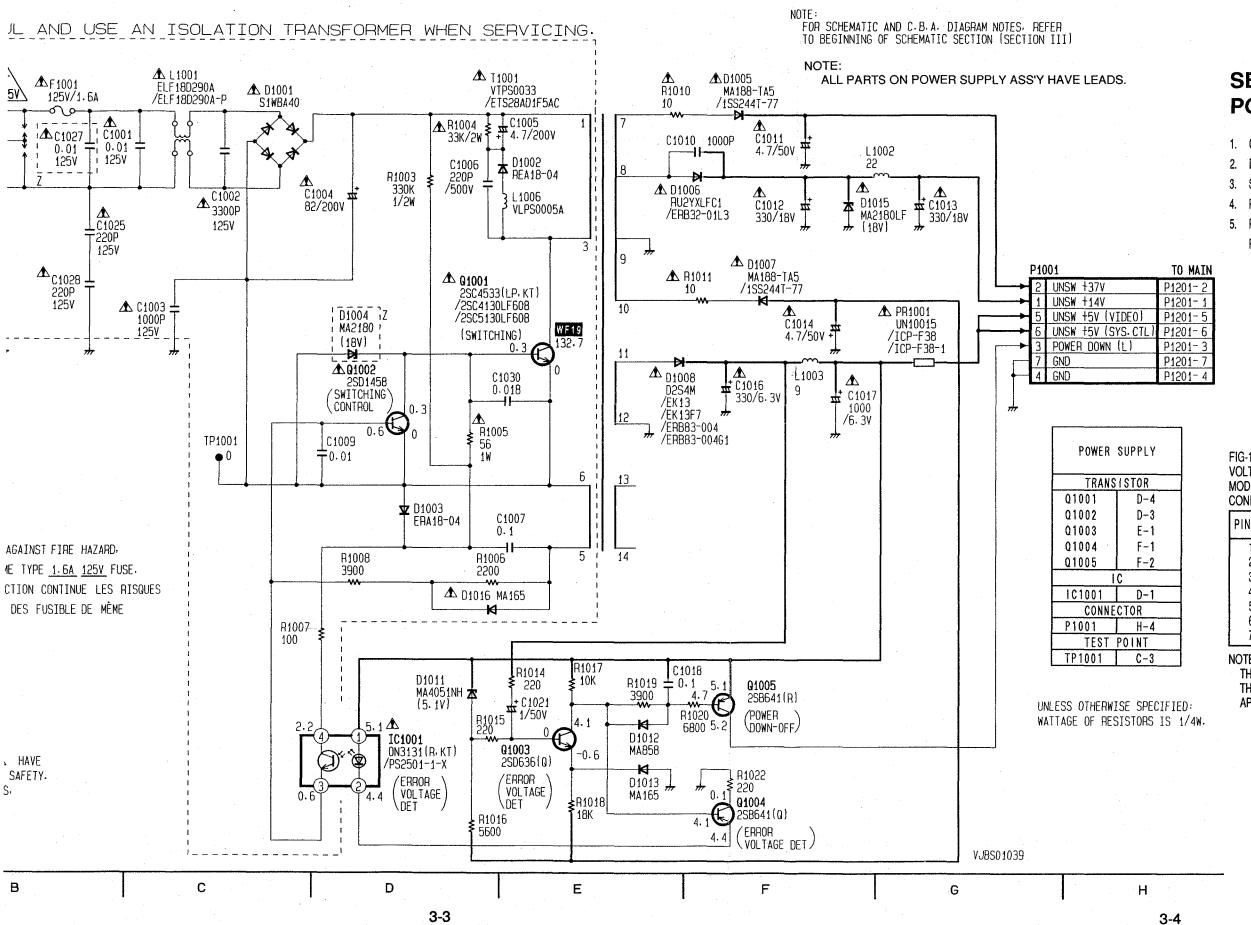
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

A B

1

2

SCHEMATIC DIAGRAM



SERVICE CAUTION SERVICE PROCEDURE FOR POWER SUPPLY ASS'Y

- 1. CHECK VOLTAGE AT PINS OF P1201 ON THE MAIN C.B.A. (SEE FIG-1)
- 2. DISCONNECT AC PLUG AND REMOVE THE FLAT CABLE FROM P1201.
- . SHORT CHECK AT TERMINAL OF P1201 ON THE MAIN C.B.A. (SEE FIG
- 4. REPAIR THE MAIN C.B.A.
- REMOVE THE SHIELD CASE FROM THE POWER SUPPLY ASS'Y AND RECONNECT THE FLAT CABLE WITH P1201 FOR REPAIR.

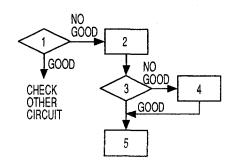


FIG-1 VOLTAGES IN STOP MODE UNDER NORMAL CONDITIONS

CHETTIONS		
PIN NO.	VOLTAGE	
1	13.5V	
2	36.5V	
3	5.2V	
4	٥٧	
5	5.2V	
6	5.2V	
7	0 V	

NOTE: THE VOLTAGES OF THIS TABLE ARE APPROX.

FIG-2 RESISTANCE UNDER NORMAL CONDITIONS.

PIN NO.	RESISTANCE	
1	MORE THAN 30Ω	
. 2	MORE THAN 500Ω	
3	MORE THAN 500Ω	
4		
5	MORE THAN 25Ω	
6	MORE THAN 25Ω	
7		
NULE:		

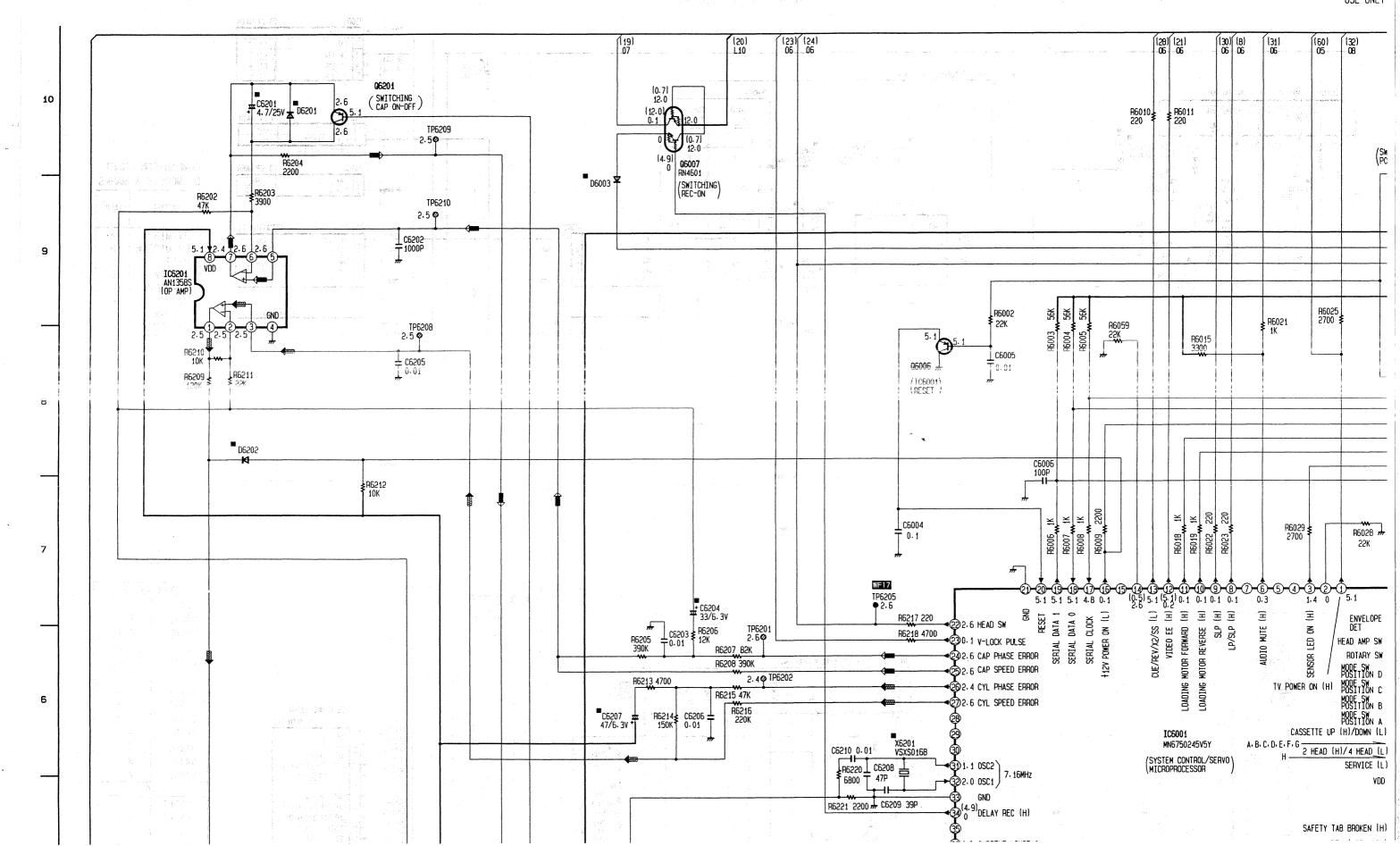
OTE:

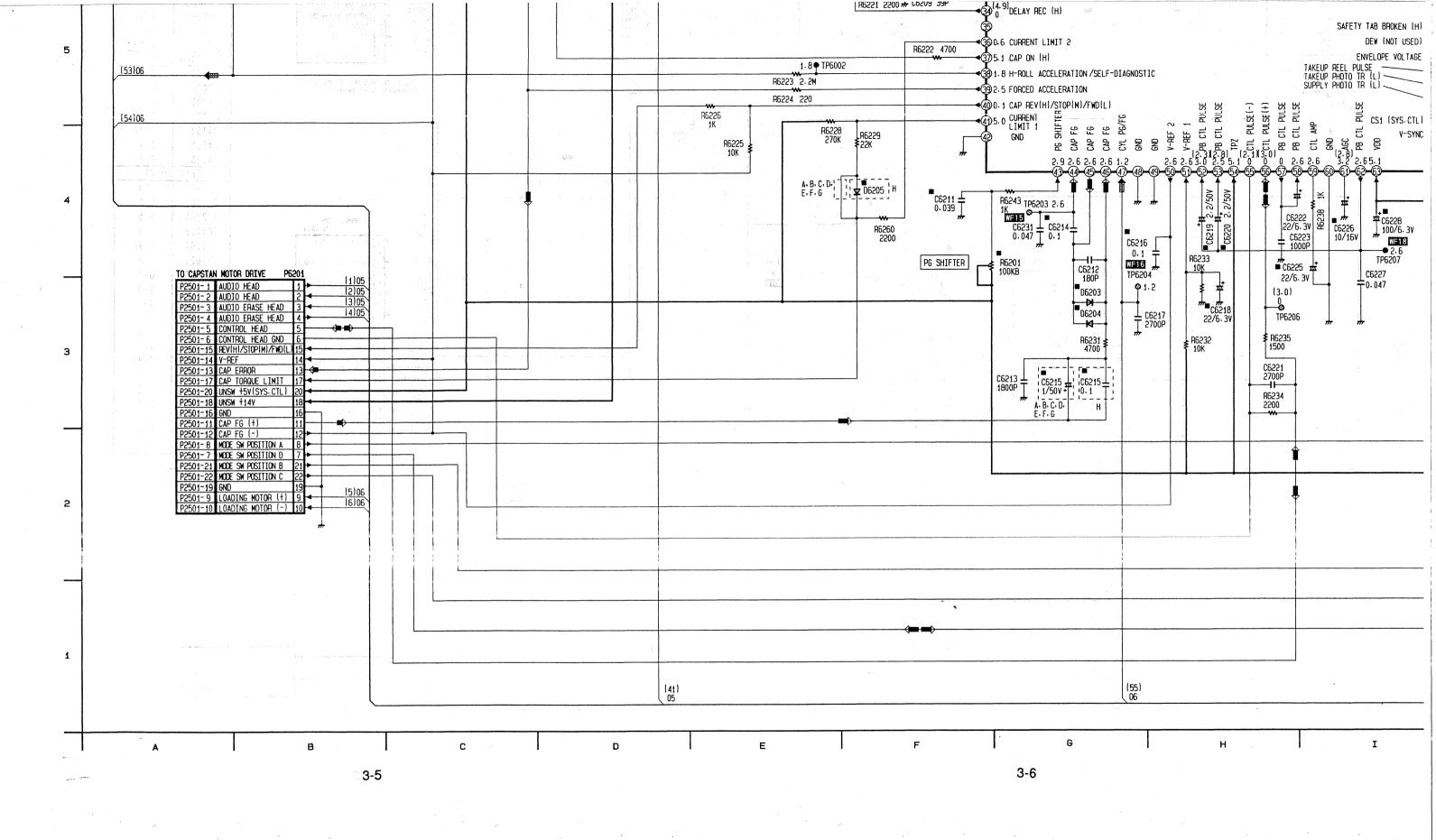
- 1. PIN 4 OF THE TERMINALS SHOULD BE GROUND IN THIS MEASUREMENT.
- 2. RESISTANCES IN THIS TABLE ARE APPROX.

MAIN I (POWER SUPPLY/CYLINDER DRIVE/SYSTEM CONTROL/SERVO) SCHEMATIC DIAGRAM

← CAPSTAN SERVO ← CYLINDER SERVO

IMPORTAN COMPONEN SPECIAL (WHEN REPL USE ONLY





IMPORTANT SAFETY NOTICE:

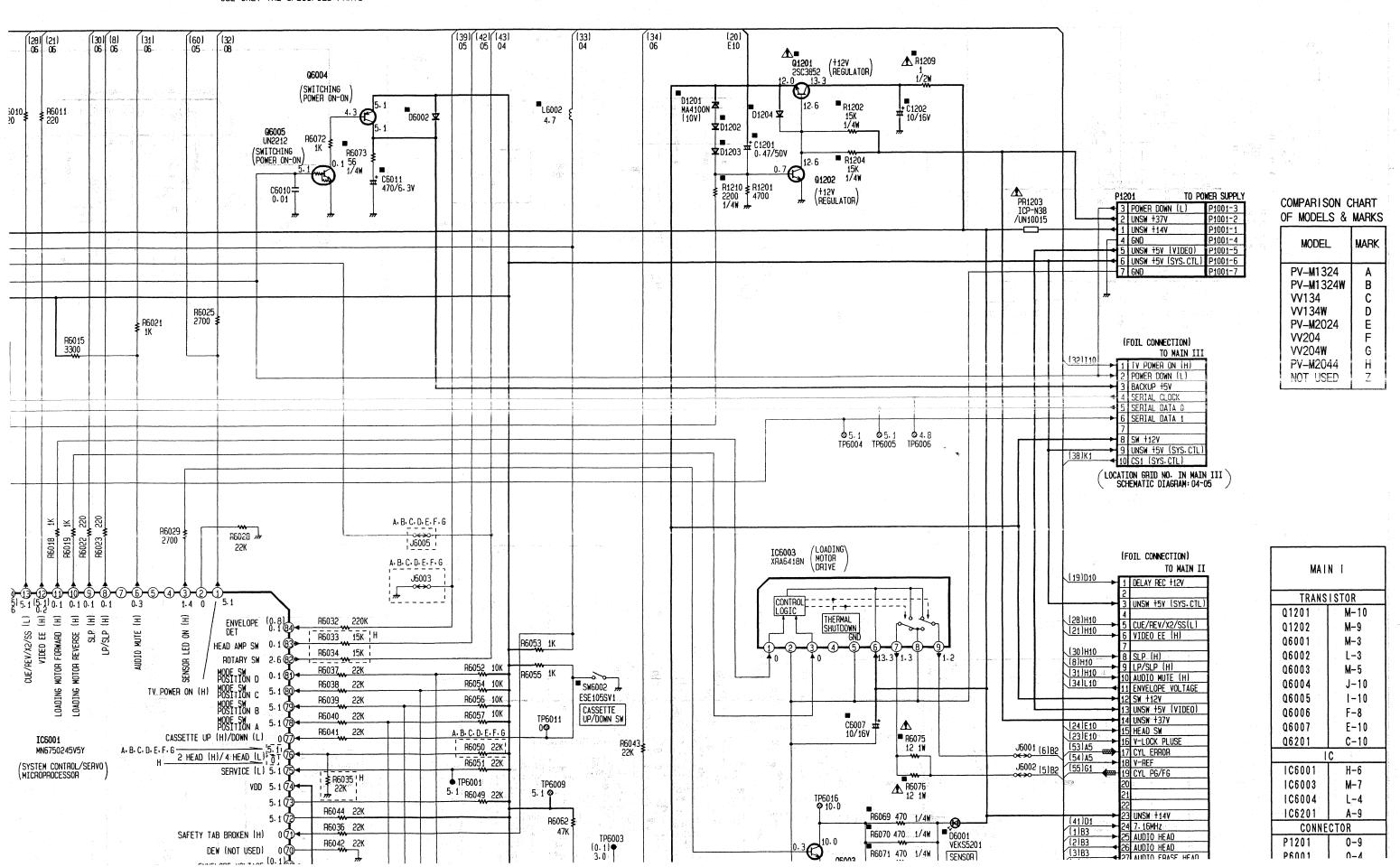
COMPONENTS IDENTIFIED BY THE SIGN A HAVE

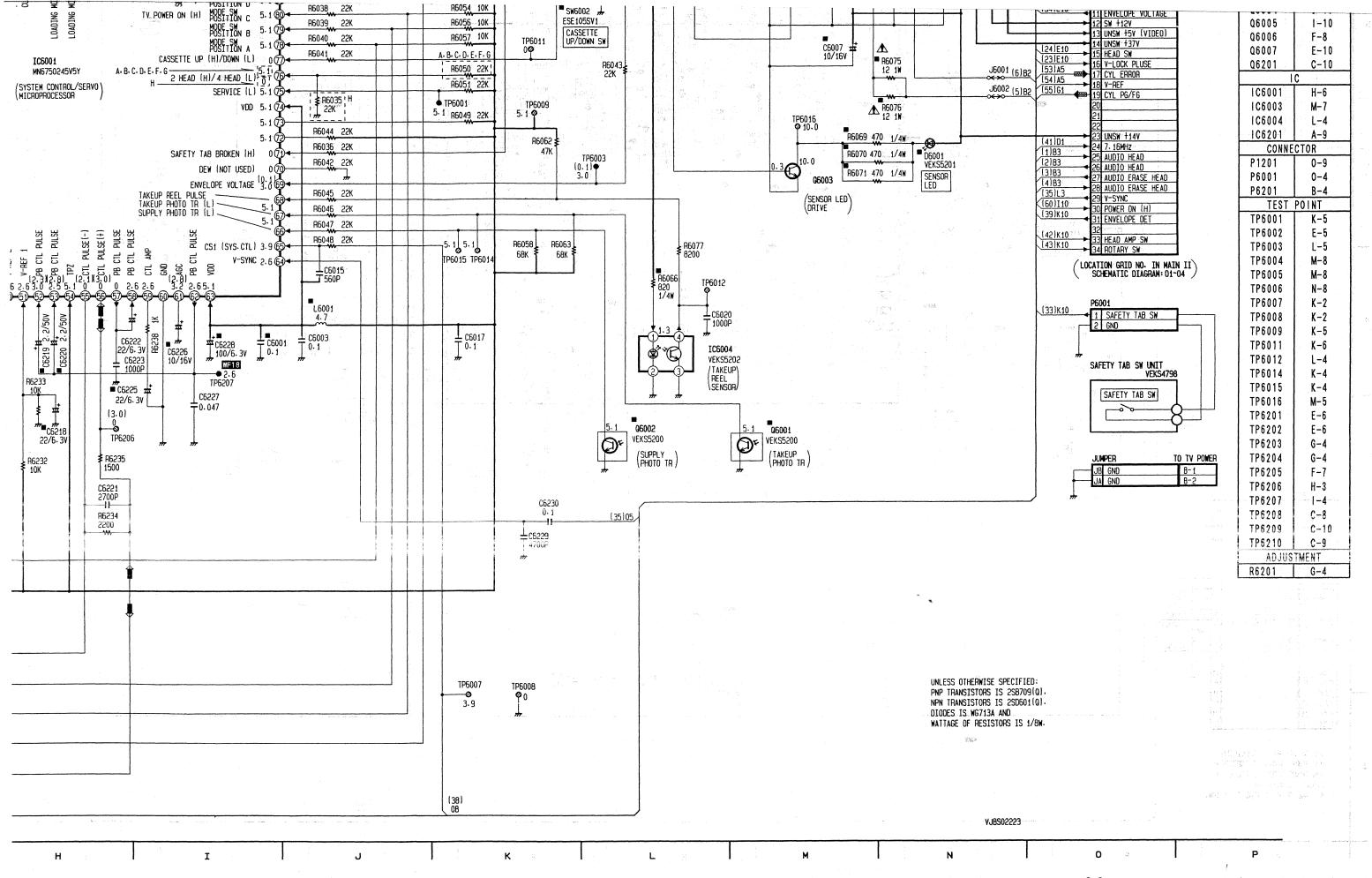
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.

USE ONLY THE SPECIFIED PARTS.

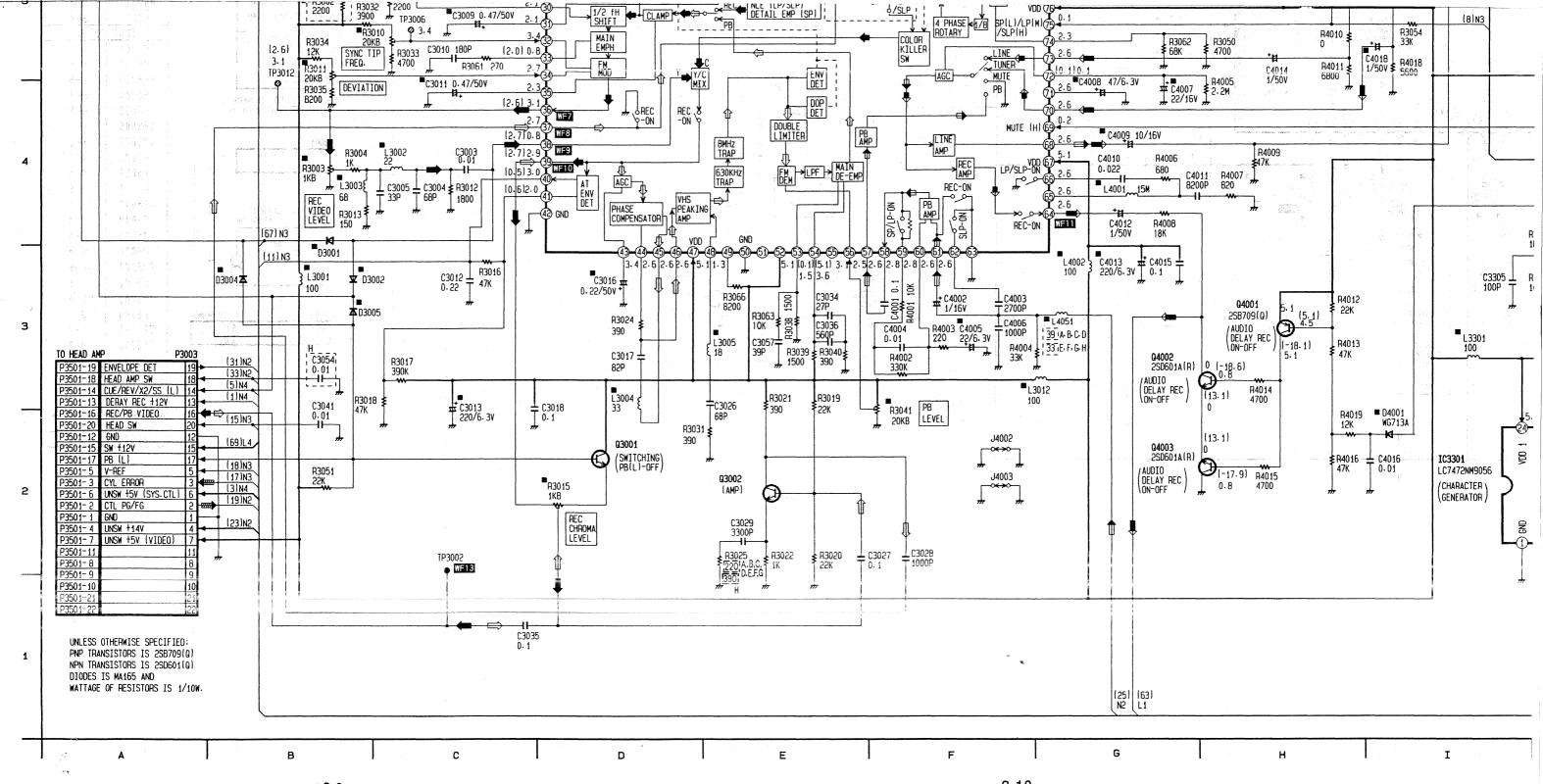
NOTE:
FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES REFER
TO BEGINNING OF SCHEMATIC SECTION (SECTION III)

MAIN ITH BROWL PROCESS (A





NOTE: FOR SCHEMATIC AND C.B.A. DIAG TO BEGINNING OF SCHEMATIC SEC PB VIDEO SIGNAL REC VIDEO SIGNAL CYLINDER SERVO REC AUDIO SIGNAL ←□ PB AUDIO SIGNAL L3206 WF14 TP4002 IC4151 AN5265 (TV SOUND OUTPUT) 10 R4030 39K 1 C4030 T 0.033 OIGUA 0.1 R4152 R3201 820 FL4001 VLFS0014 +C4156 470/25V 15. 75KHz Trap C4157 0.047 © C4155 4.7/25V GND GND VDD VDD GND IC3201 ₹ R3601 **\$** 330 CCD 1H DELAY R4161 MN3870S C3604 470/6.3V C4151 10/16V R4151 560 ■C4160 R4031 (CCD 1H) 470/25V C4159 10/16V CCD 1H DELAY ■ R4159 10 1/4W — C4158 — 0.047 (BUFFER) R3602 270 R4160 [390] E.F.G.H] **★** D3602 MA4130-M (13V) C320B 3 A. B. C. D 1 3900 ₹ R3203 2.2M E.F.G.H ! 1800 (16) (129) (LPF) N3 N2 R3027 R3028 3300 10K C3015 2.2/50V A.B. C. D. E.F.G (60) N4 R3052 L3010 TP3010 D3007 MA4091-M (9.1V) I C3021 2.2 SWITCHING CUE/REV/X2 /SS(L)-ON □D3006 🕏 C3022 2.2/50V+ R3036 27K R3030 1.5M 77 R3029 470K 77 C3023 D3003 R3060 C3024 10/16V R3058 820K R3043 39K Q3004 UN2113 (SWITCHING (LP/SLP-OFF SP-ON IC3001 AN3458FBP (LUMINANCE /CHOMINANCE/AUDIO /MAIN PROCESS 2.2/50V LEVEL R3049 1200 ₹ R3044 2.2M C3048 3900P C3051 220/6-3V R3047 C3046 5600 3 3/50V C3047 R3006 10K R40; 47K 1/41 C401S 0.01 TP3005 2.10 COLOR L3013 (9)N3 R3053 33K VDD 76 0.1 R3009 2200 3900 TP3006 (B)N3



3-10

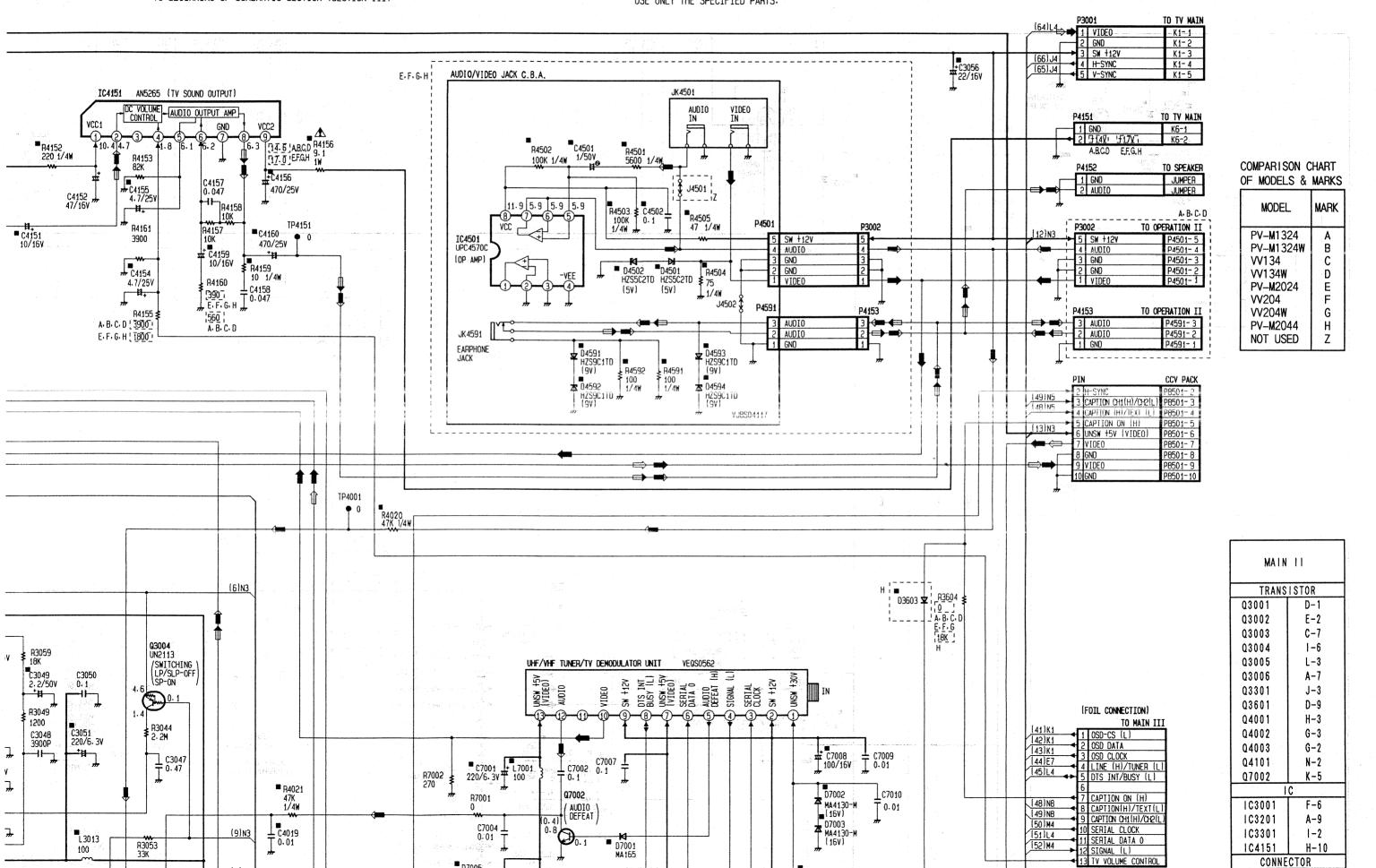
3-9

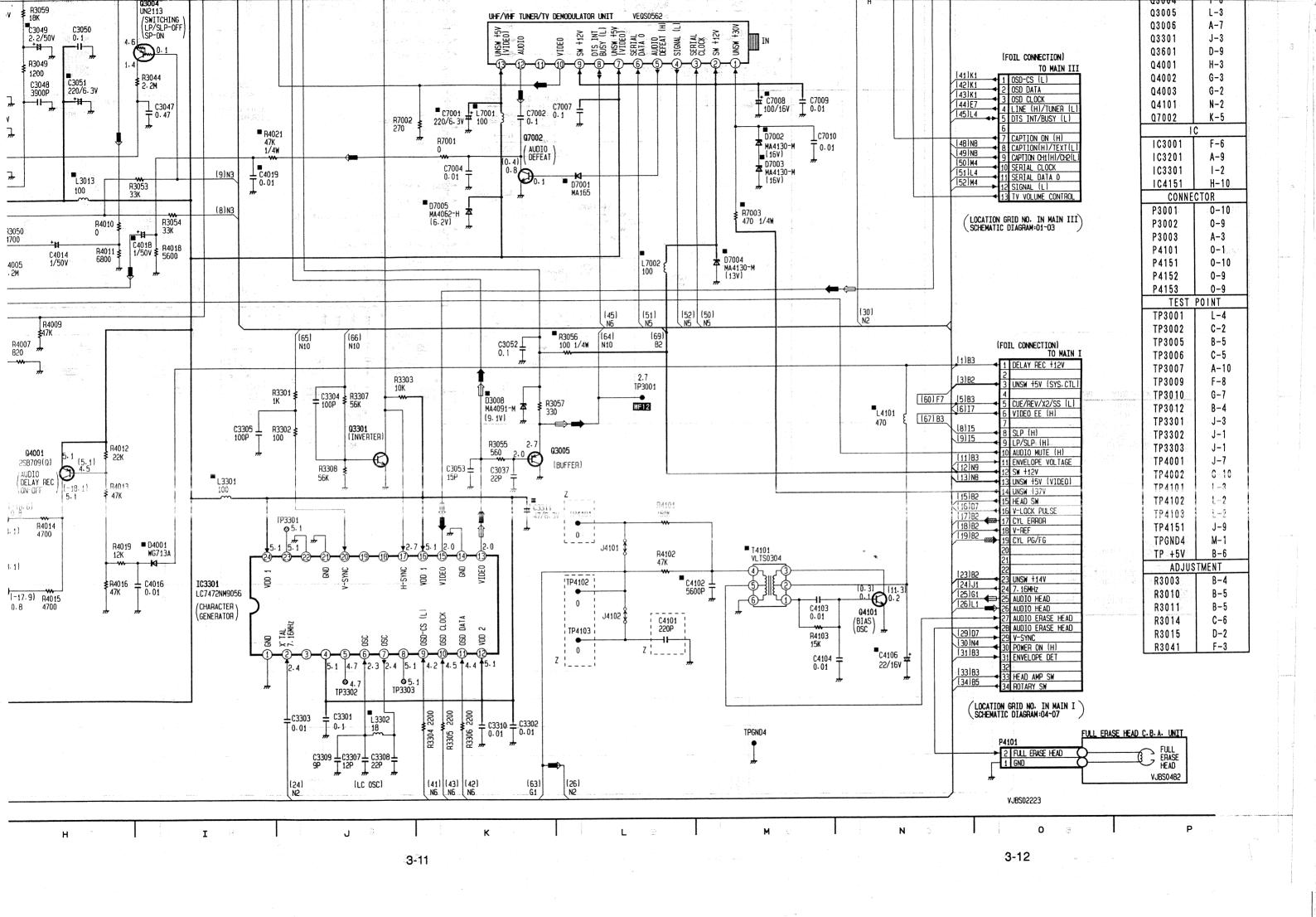
NOTE:
FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES REFER
TO BEGINNING OF SCHEMATIC SECTION (SECTION III)

IMPORTANT SAFETY NOTICE:

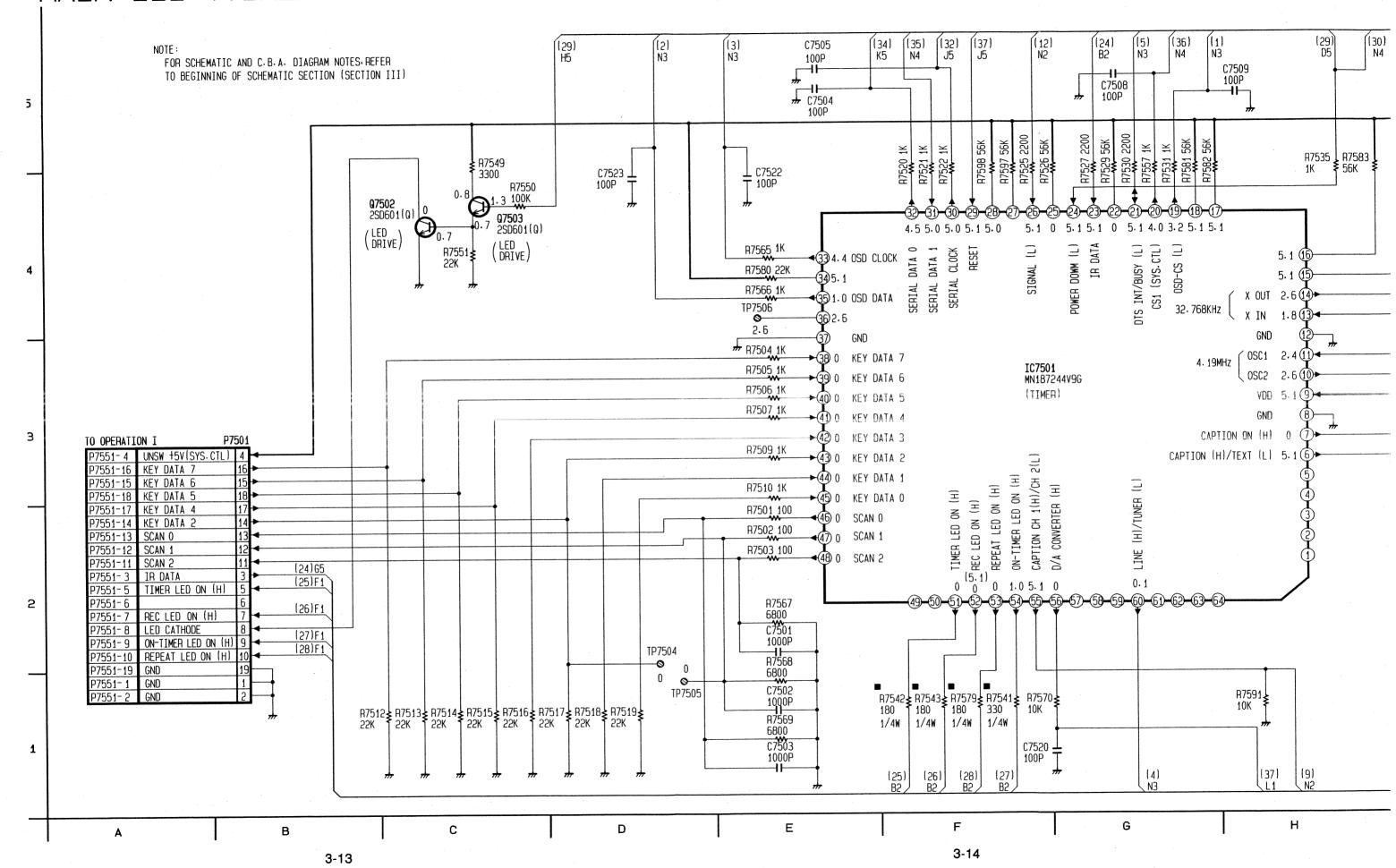
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

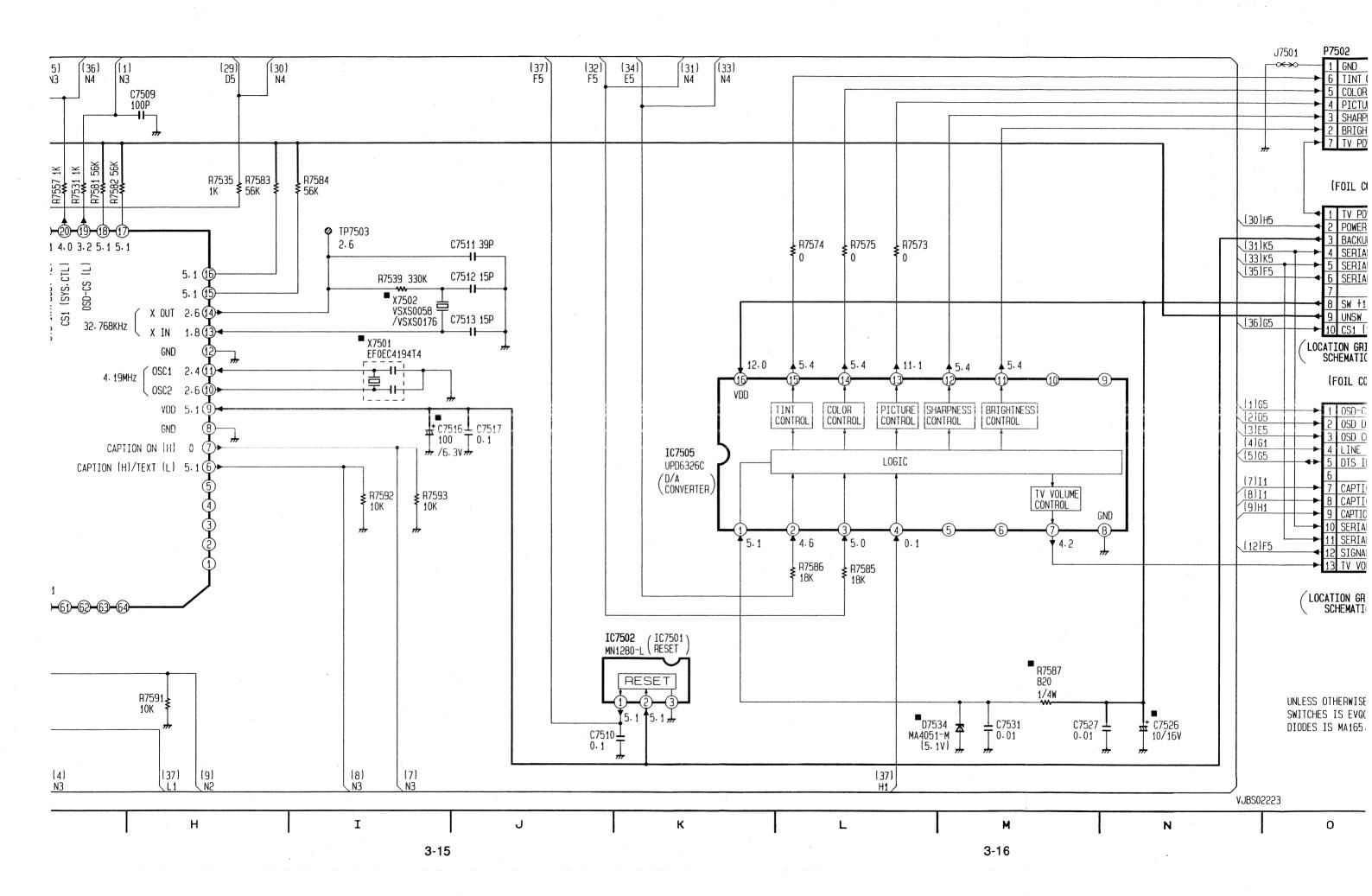
KARAMIE SITAMIBESE I OVERKÄLLORIMODE METEYENEN IRU EREMINYONYKENEN EREMINALIKA

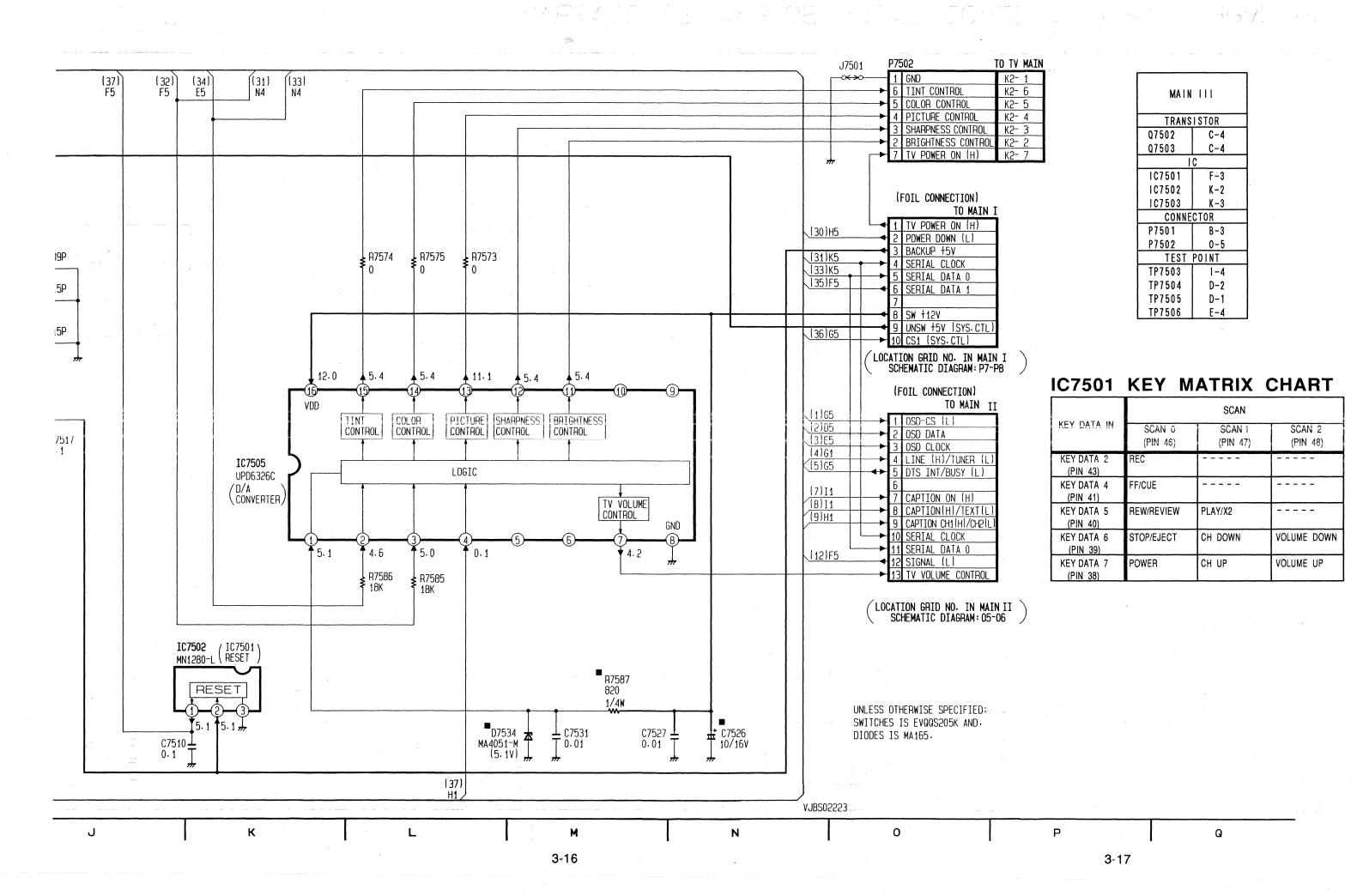


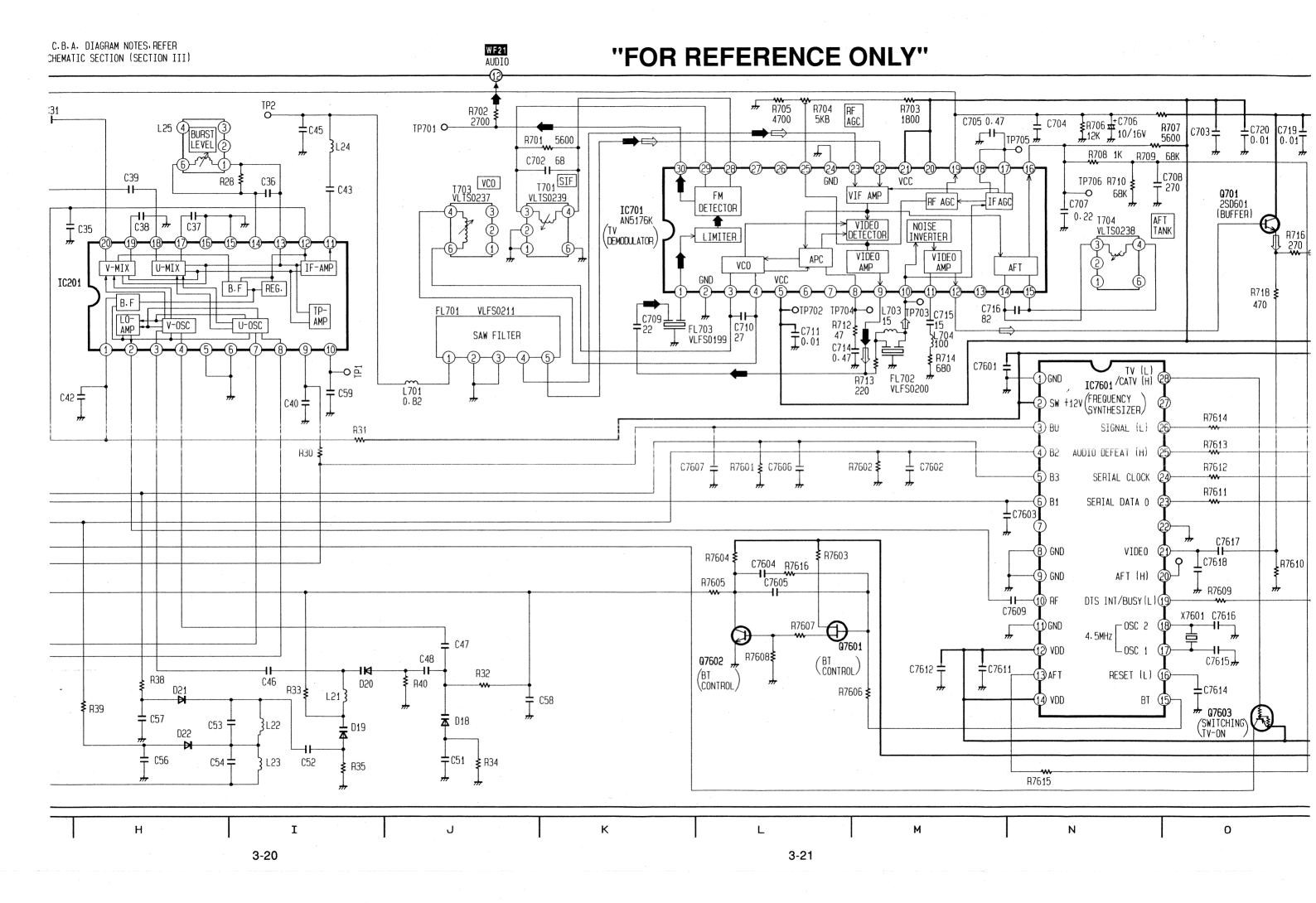


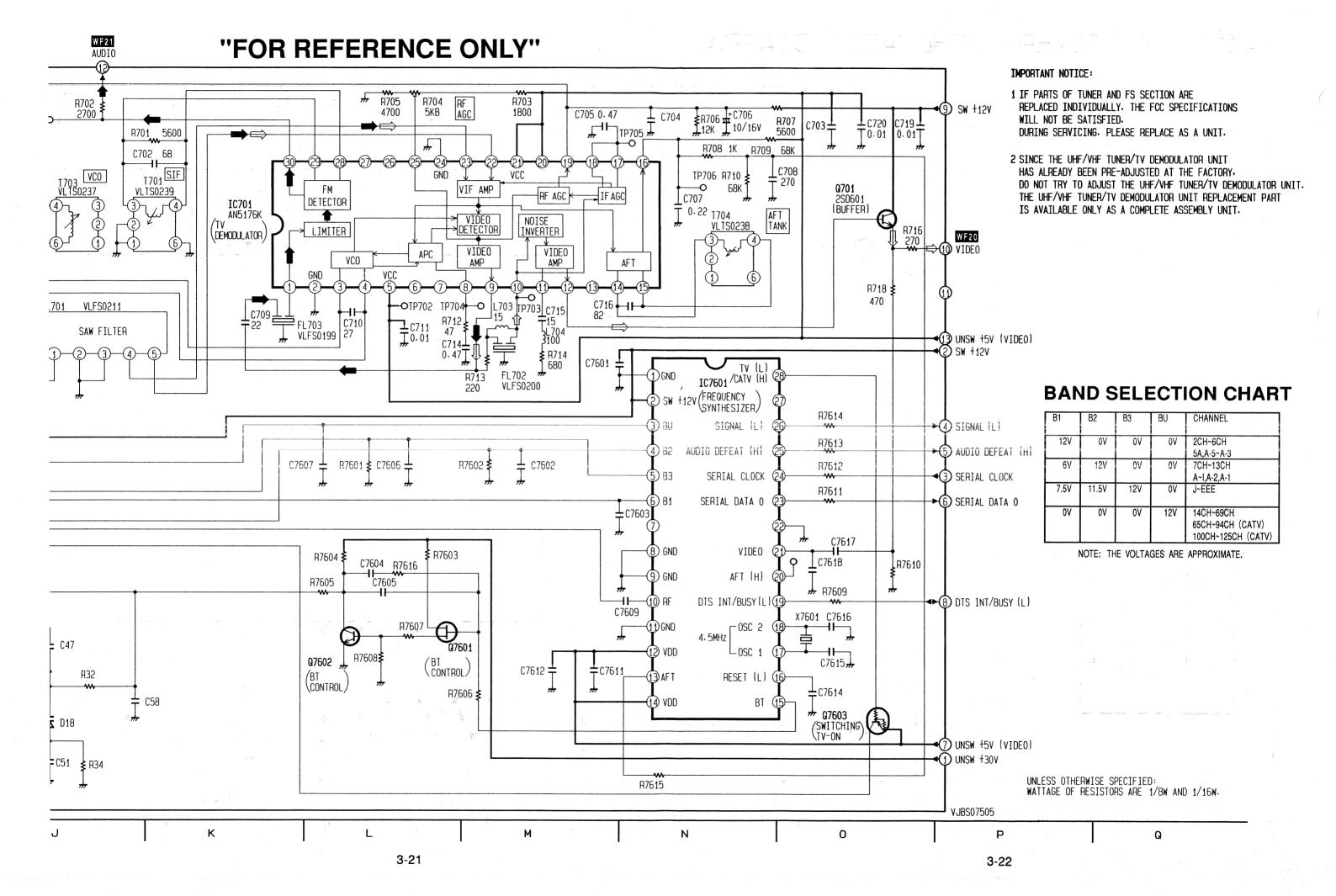
MAIN III (TIMER) SCHEMATIC DIAGRAM



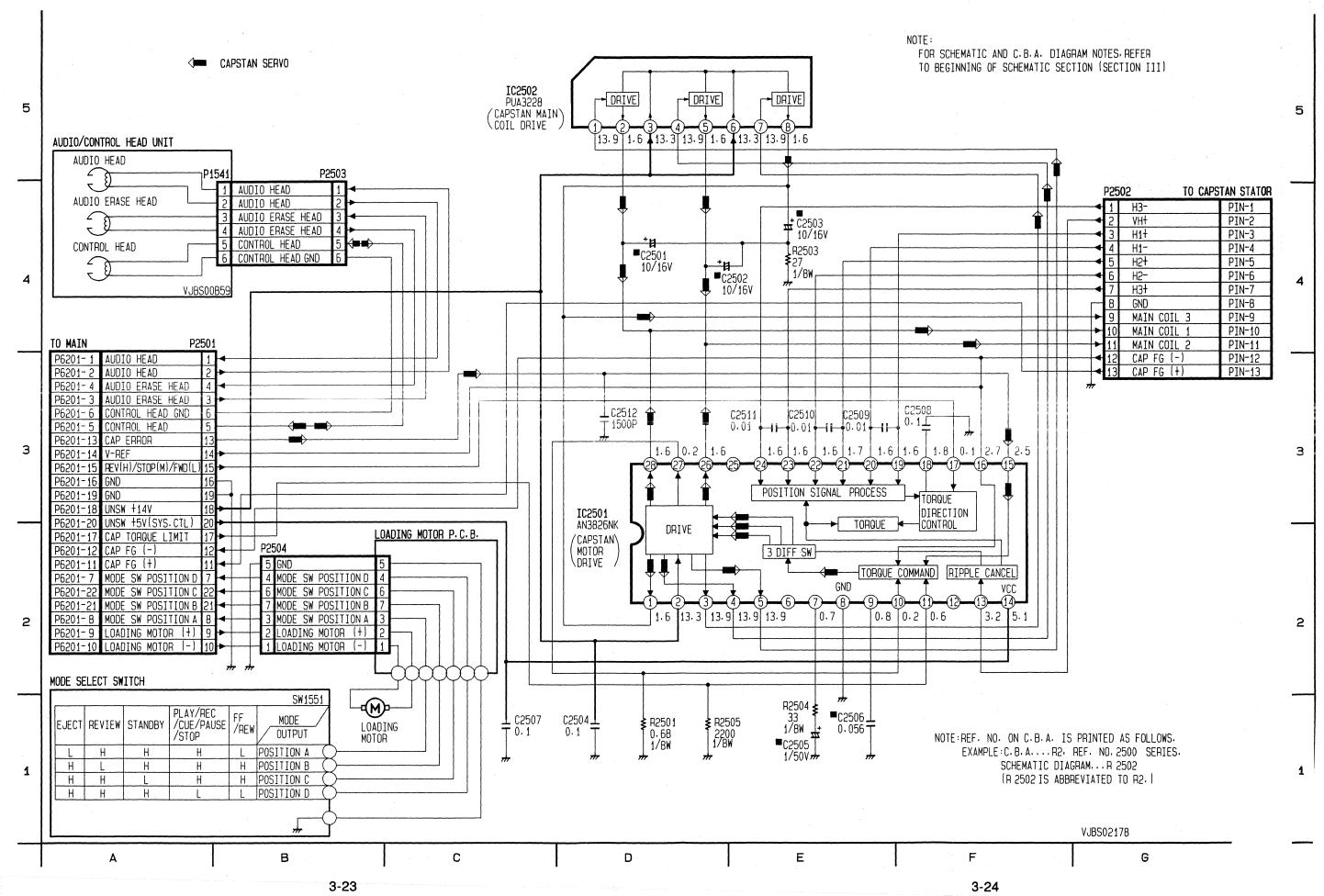




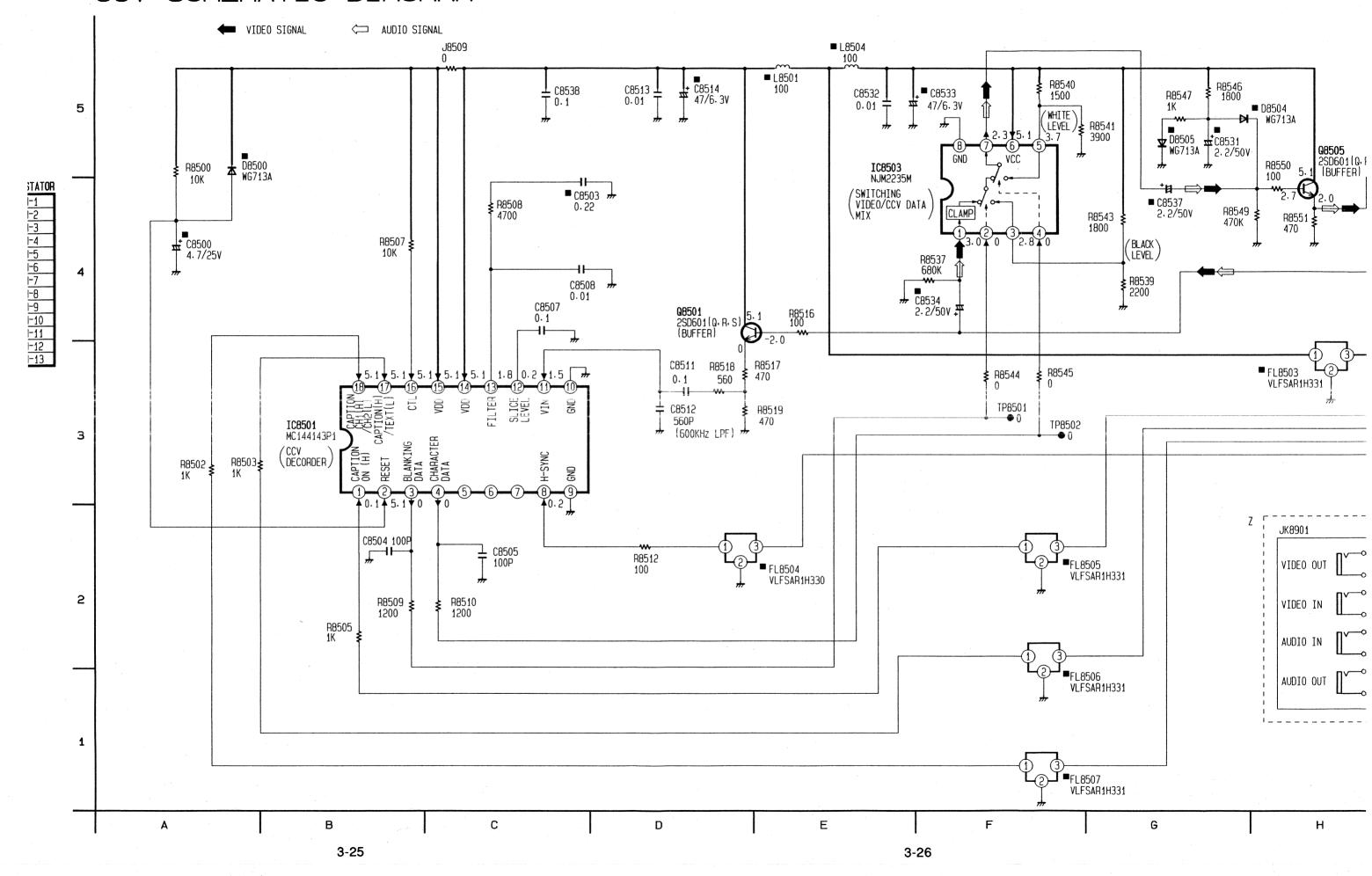


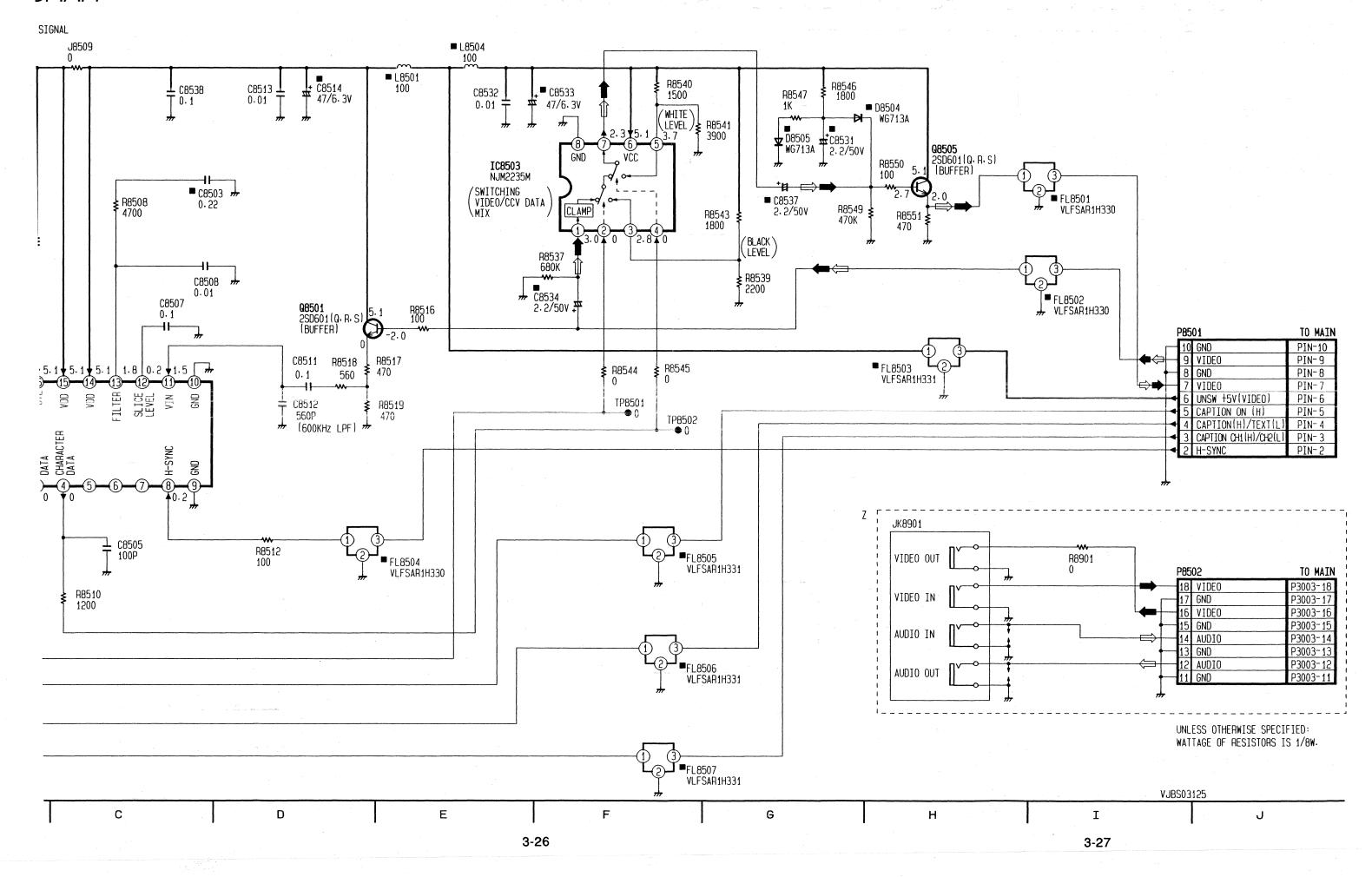


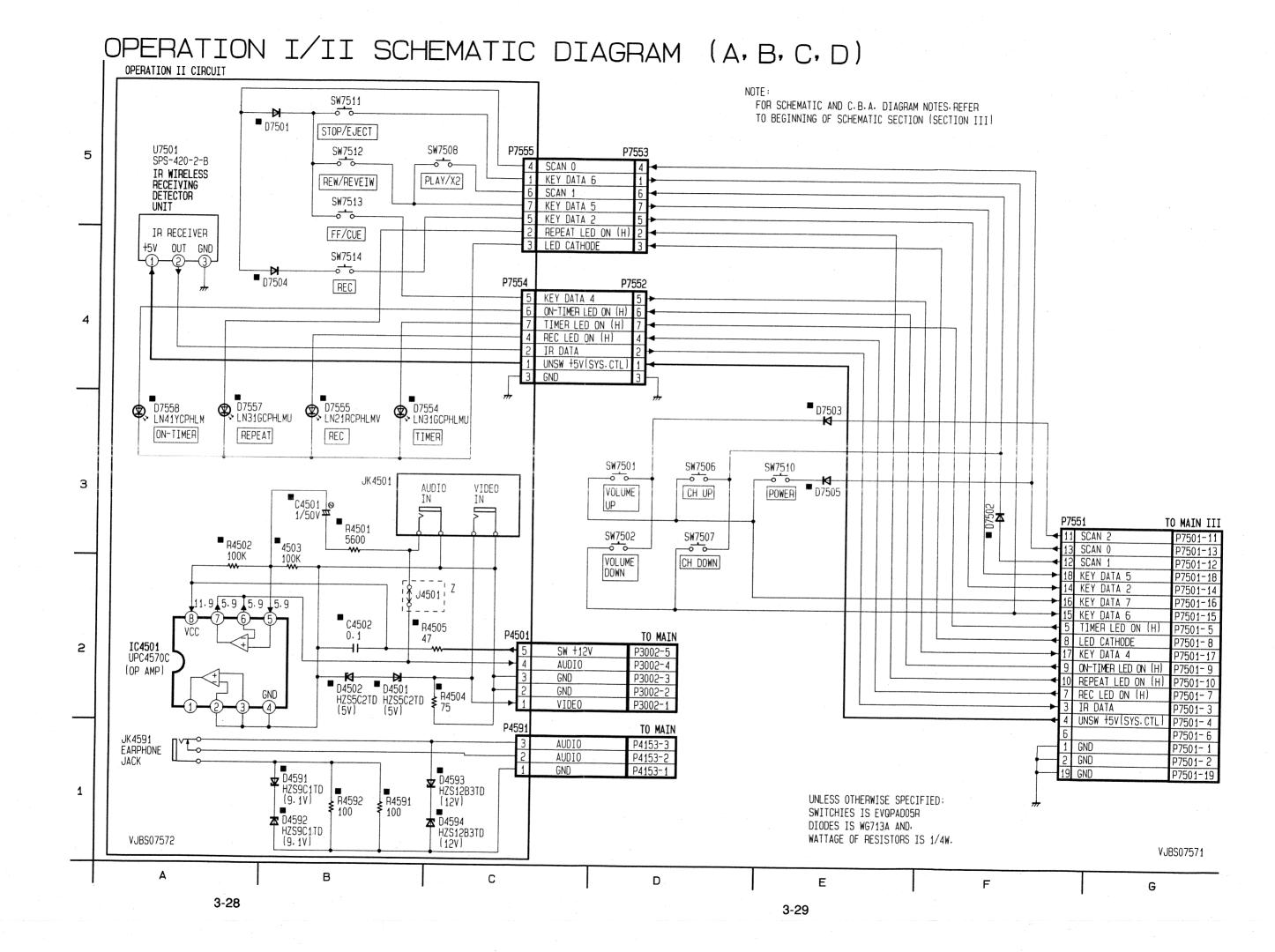
CAPSTAN MOTOR DRIVE SCHEMATIC DIAGRAM



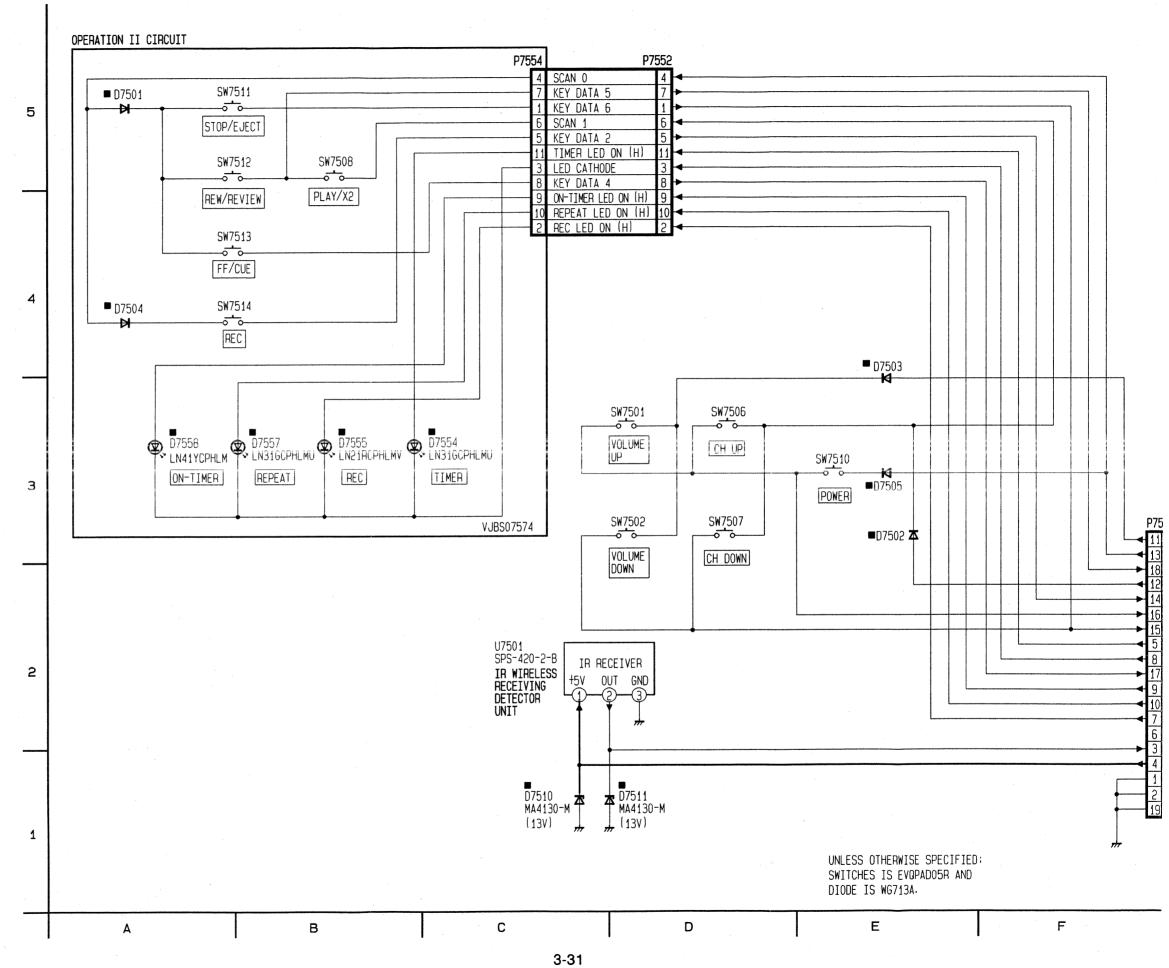
CCV SCHEMATIC DIAGRAM







OPERATION I/II SCHEMATIC DIAGRAM (E, F, G, H)



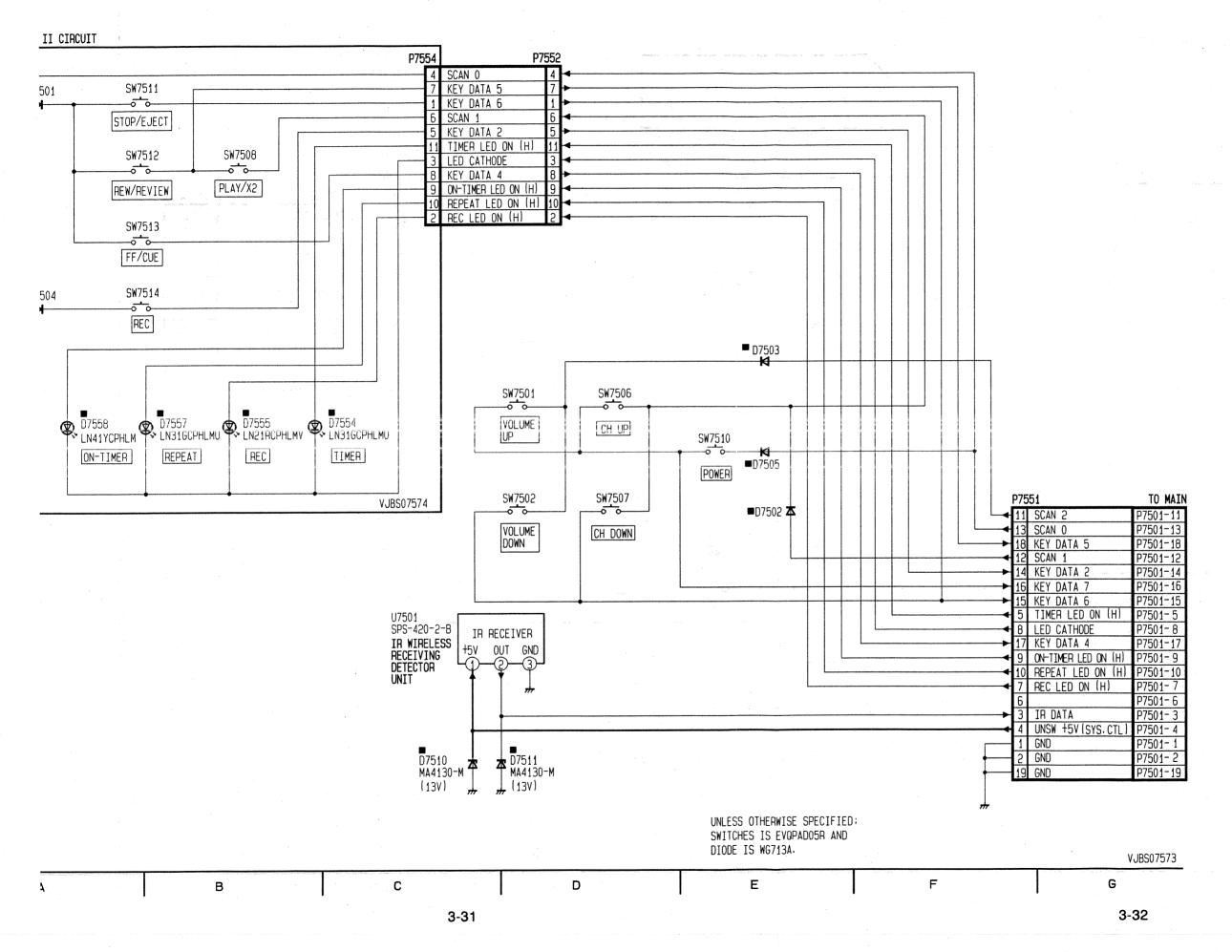
P7501-11 P7501-13 P7501-12 P7501-18 P7501-14 P7501-16 P7501-15 D ON (H) P7501-5 ODE P7501-8 P7501-17 LED ON (H) P7501-9 ED ON (H) P7501-10 ON (H) P7501-7 P7501-3 (SYS. CTL) P7501-4 P7501-6 P7501- 1 P7501- 2 P7501-19

TO MAIN III

VJBS07571

G

ATION I/II SCHEMATIC DIAGRAM (E, F, G, H)



COMPARISON CHART
OF MODELS & MARKS

MODEL	MARK
PV-M1324 PV-M1324W VV134 VV134W PV-M2024 VV204 VV204W PV-M2044 NOT USED	A B C D E F G H Z

HEAD AMP SCHEMATIC DIAGRAM (A, B, C, D, E, F, G) NOTE: FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION (SECTION III) TO MAIN P3501 P3003-13 DELAY REC +12V REC/PB VIDEO P3003-16 P3003-15 SW +12V L3501 P3003-20 HEAD SW P3003-17 PB (L) 100 P3003-10 C2606 C2605 C2604 C3504 # 47/16V C3505 | 0.01 | P3003- 9 0.1 0.1 0.1 P3003-8 P3003-1: P3003- 7 **A**0.1 | 13.0 | 13.3 | 1.2 | $\overline{}$ | 3.9 | $\overline{}$ | 5.1 P3003-14 C2609 <u>1</u> P3003-18 WF22 P3003-19 P3003-6 UNSW +5V (SYS.CTL) CHARGE/ C3506 CHAHGE/ DISCHARGE CTL IC2601 P3003- 2 CTL PG/FG OSD 5.0 12.0 AN3813K P3003- 4 UNSW +14V POSITION SIGNAL LOGIC /CYLINDER P3003- 1 GND MOTOR P3003- 5 V-REF PG/FG P3003-3 CYL ERROR CURRENT PROCESS P3003-12 GND SATURATION TORQUE IC3501 P3003-21 WAVEFORM AN3362K P3003-22 SHAPER (HEAD AMP) 3 13.0 13.0 0.1 0.6 **↑**2.7 | 2.6 **↑**1.3 **↑**0.9 WF23 2.8 15.11 [0.21 [10] 0.2 1.4 0.7 101 (0.1) (5.9) (5.9) (5.9) (5.9) C2610 0.01 ₹ R2604 ± C2612 T 0.1 ₹ R2605 1.2 C3529 0.01 R2606 560 TO D.D CYLINDER P3502 1/4W 1/4W C2611 C3520 \perp PIN-8 UNSW +14V C3524 0.022 0.22 + T 0.22 PIN- 4 HE-PIN- 6 HE+ R3504 ≰ ₹ R3505 56 PIN- 1 MAIN COIL 3 56 MAIN COIL 2 PIN- 2 PIN- 3 NAIN COIL 1 TP3 PIN-5 VH+ 2 C3525 0. 1 R3506 R330 C3519 ± PIN- 7 GND C2601 T 0.1 ± C2602 T 0.1 ± C2603 T 0⋅1 UPPER CYLINDER R3508 ₹10 PIN P3503 VIDEO R HEAD VIDEO L HEAD VIDEO L HEAD TP3 VIDEO L/R HEAD ₹ R2603 470 R2601 470 ₹ R2602 470 VIDEO R HEAD UNLESS OTHERWISE SPE 1 WATTAGE OF RESISTORS В С Ε F D G Н 3-33 3-34

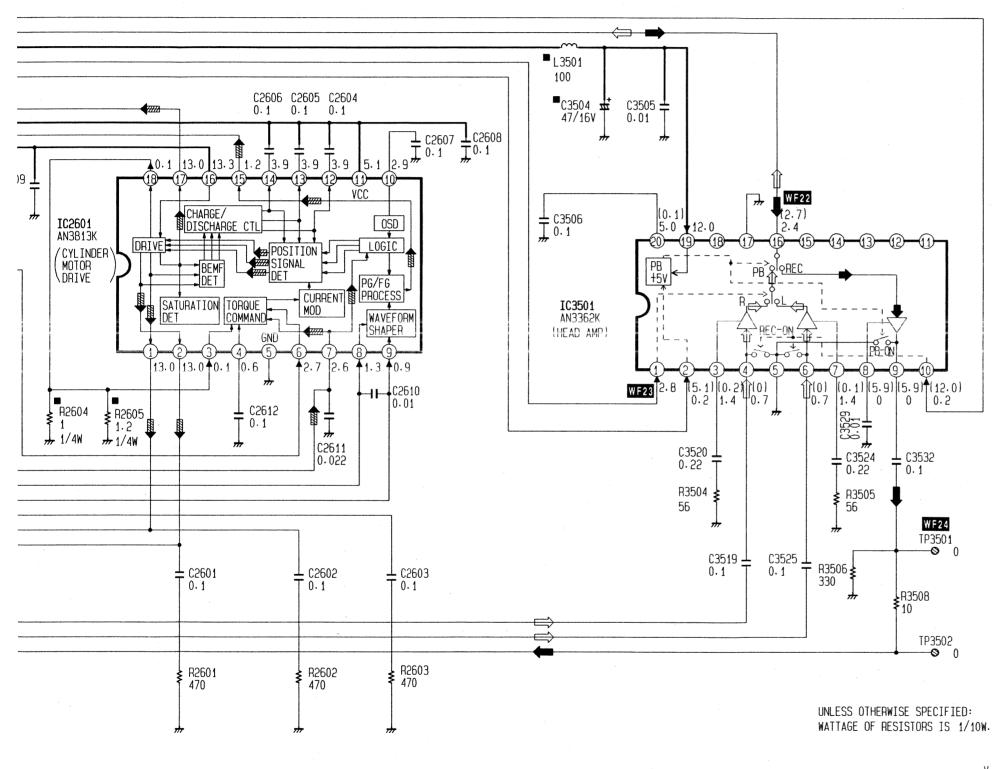
1 (A, B, C, D, E, F, G)

D

Ε

3 SERVO

NOTE:
FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES REFER
TO BEGINNING OF SCHEMATIC SECTION (SECTION III)



COMPARISON CHART OF MODELS & MARKS

OF MODELS & MARKS	
MODEL	MARK
PV-M1324	Α
PV-M1324W	В
W134	C
VV134W	D
PV-M2024	E
VV204	F
VV204W	G
PV-M2044	Н
NOT USED	Z

HEAD AMP		
IC		
IC2601	D-4	
103501	F-3	
CONNECTOR		
P3501	B-5	
P3502	B-3	
P3503	B-2	
TEST POINT		
TP3501	H-2	
TP3502	H-1	

I J

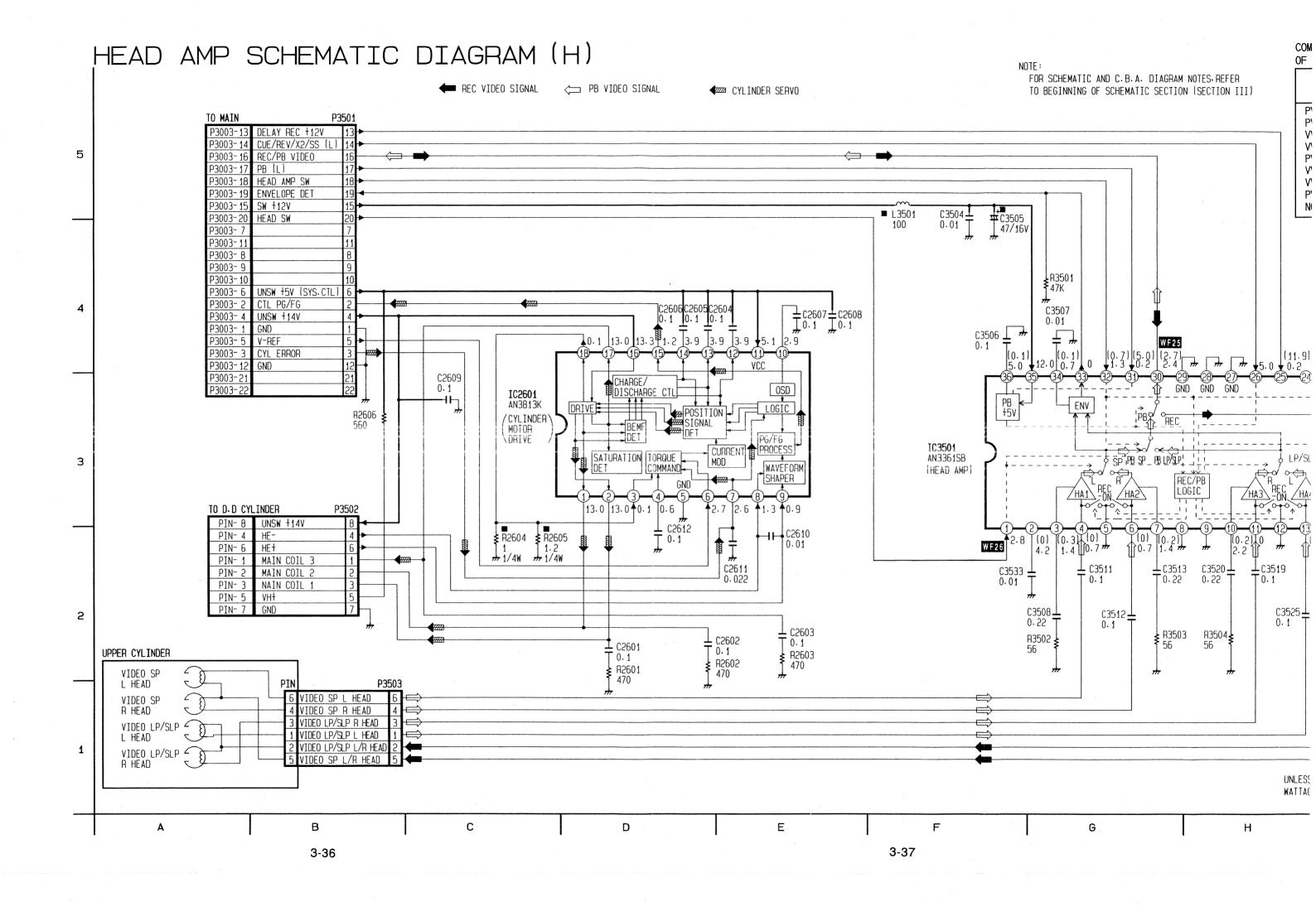
VJBS0563

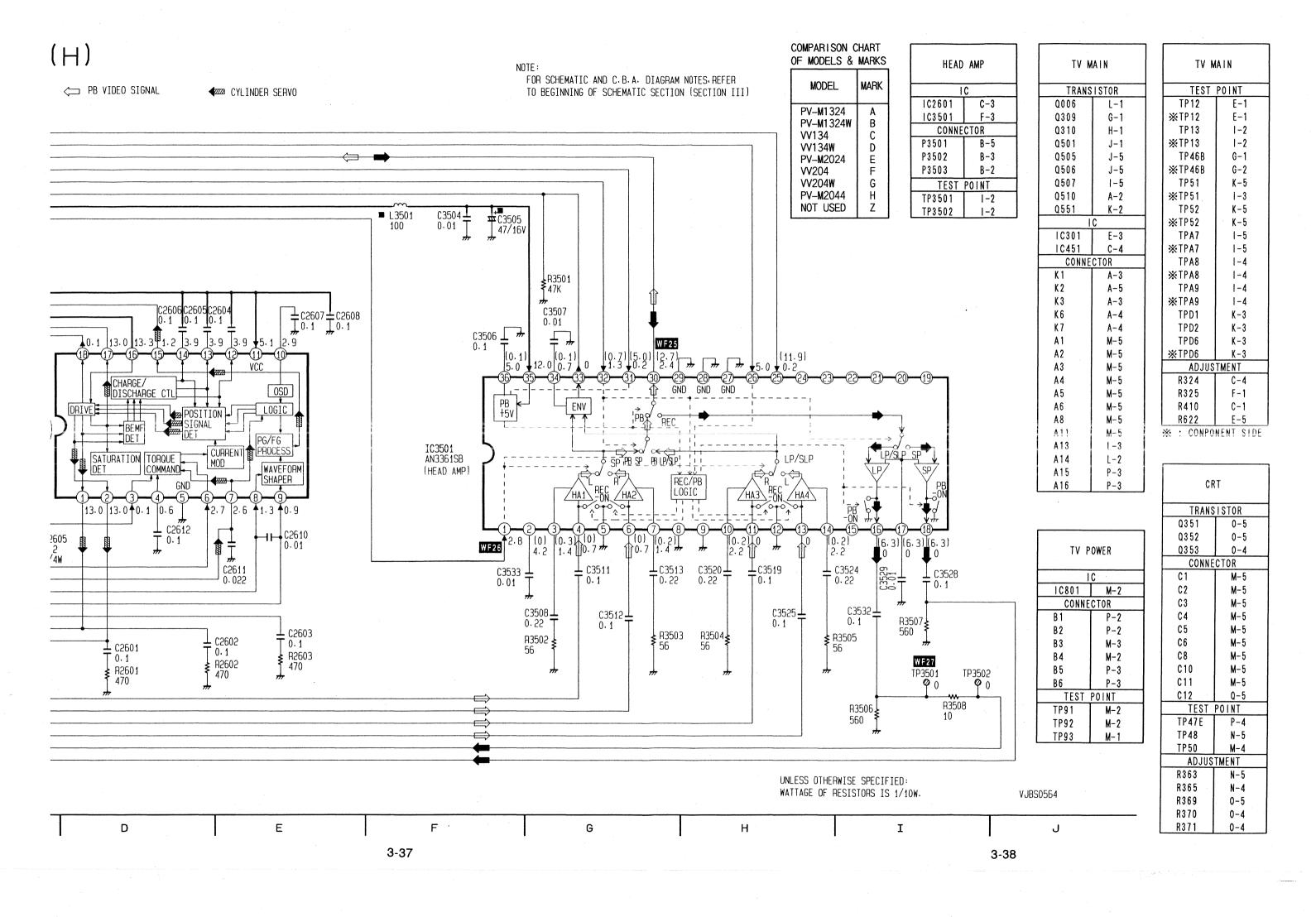
Н

3-34

G

3-35





TV MAIN/TV POWER/CRT SCHEMATIC DIAGRAM (A, B, C, D) FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION (SECTION III) VIDEO SIGNAL TO VCR MAIN (BLUE MIX AMP) TINT CONTROL R417 560 C410 R626 \$ R625 \$ R624 \$ 39K \$ 3900 \$ 27K COLOR CONTROL 4700P R629 27K (4) E1 PICTURE CONTROL -H-R307 ₹ 3900 100K R301 P7502-SHARPNESS CONTROL J91 R366 N N 33K C416 1200 BRIGHTNESS CONTROL 18K D603 D602 R627 #± Ce11 20KB 0.056 TV POWER ON (H) C6091 R302 C511 <u>-</u> 2700PT 1 J92 3300 R504 15K 100K 33P 2.2/50V SUB-P7502- 1 ₹ R310 1200 C513 <u>1</u> ☐ C531 ☐ 1800P R631 R630 ≰ R628 ≰ 3900 1K ₹ 22K TINT (14)H5 F R304 # ₹ 39K ₹ 3900 ¥ R415 ₹ 39K R610 ₹ 470K /GREEN ₹ R311 39K J 10KB ₹ R623 18K (MIX AMP) ----W-TO VCR MAIN SUB-≹R411 | 22K C417 R349 ₹ BRIGHTNESS ₩ C301 P4151-2 +14V C406 +C507 3.3/50V 1/50v + 3. 3/50V 1200P (15)^{10K} 4.7/25V P4151-1 GND R367 1200 (17) (18) (12) E2 L4 (30) H1 (11) E2 (10) C506 C506 C506 R506 ₹ R443 15K 4.7/25V 2200 R614 C614 L601 } **7∆** R505 R416 R425 ⚠ IC451 LA7835 (VERTICAL DEFLECTION OUT) +14V 550 4700 | 560K 560P GND (MIX AMP) C508 C508 VERTICAL DRIVE 中X501 CSB503F5 RAMP C610 1 0.01 1 THERMAL PROTECTION WF31 GENERATOR VERTICAL (33)14 IRIG. INPUT +140 VERT SIZE CONTROL SW PUMP UP GND VCC SYNC: SEP. IC301 HORIZON) PRE DRIVTRANSFORMER W T11.7 T4.7 T6.0 6.1 T5.4 23.4 1.8 1.5 9.6 T23.8 | 5.0 LA7621 TO VCR MATN (22) H4 R448 LUMINANCE P3001-3 (3)E1 /CHROMINANCE 680K VIDEO C415 0.1/50V SIGNAL PROCESS BRIGHT GND c C409 C411 100/25V 10P P3001-R441 [5]H5 R445 C408 4 P3001-4 H-SYNC 100 1K Y OUT P3001-5 C402 470/16V R427 $11.0 + 6.0 + 10^{3417}$ D401 5.2 4.5 6.7 2.2 8.4 5.6 UNLESS OTHERWISE SPECIFIED: 5.7 6.5 7.1 7.1 5.7 | 6.5 | 7.1 | 7.1 | 8.602 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 | 8.603 **₹**1.5 EM1ZV DIODE IS MA165 AND ₹ R447 ₹ 33K (11) D4 # C418 WATTAGE OF RESISTORS IS 1/4W. (17) C4 100/25V **1** LB01 ELF18□ **⚠** R422 ₹ (18) D4 (16)H3 100 C002 0.01 125V (15) B4 R413 R402 C601 C602 C603 R604 \$560K 2700 33K ⊥ C315 2 R537 R536 820 18K Q510 2SD636(Q) R409 R401 C314 10/16V 390P 390P 390P 330K 1 /SWITCHING ₹27K 2200 **⚠** D503 R336 ↓ 1500 **\$** C316 15P ₹ R001 8.2M \x-PROTECTOR/ **⚠** R509 ERB43-04V C401 + C414 1.5/50V + 2200/16V 23.7K /ES1V D514 C530 R507 + C501 R508 T5600P \$ 15K 10/35V \$ 10 L303 D302 ≸ R338 MA4075-HTAKT 本 100

R414

1/2W

\$ 2.2

D

50KB

VERTICAL

(21) H4

(32) H5

3-39

В

(1) H1

IMPORTANT SAFETY NOTICE:

USE ONLY THE SPECIFIED PARTS.

1

COMPONENTS IDENTIFIED BY THE SIGN A HAVE

SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.

WHEN REPLACING ANY OF THESE COMPONENTS,

2.7 TP12

TP12

WF36 ♥

R327 ≰

10K

Ε

L302 ELT10Z3C3

R325

1KB

CONTRAST

3-40

≰ R335

820

(10) (26) E4) M5)

TP46B

R394 R345

270

(23) (27) K5 M5

G

Q309 #

2SB641(Q) (BUFFER)

(28) (31) (SWITCHI-M5 A2) (SERVICE

7.1 № 7.1

₹10K

⚠ D85

15

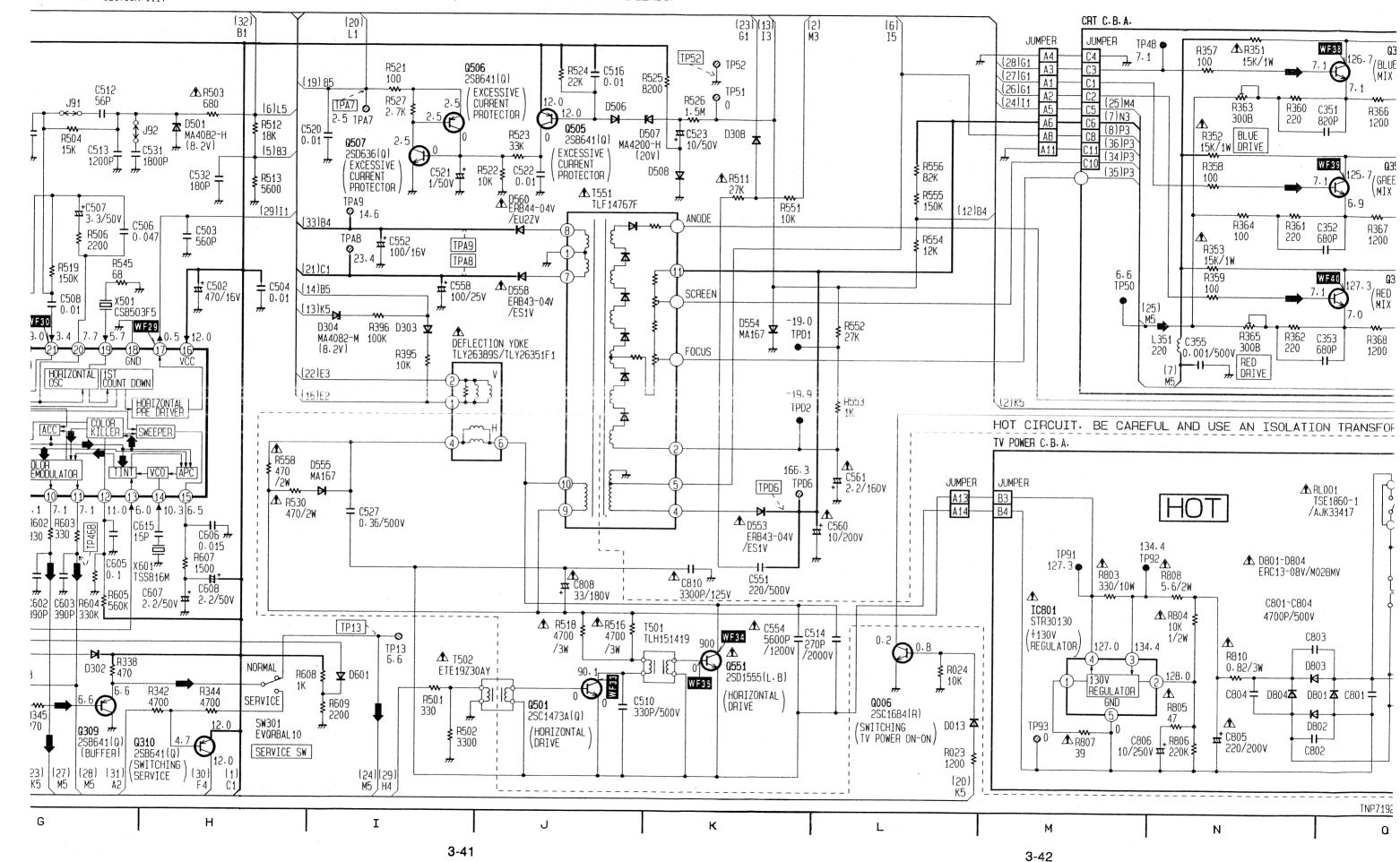
TNP71920

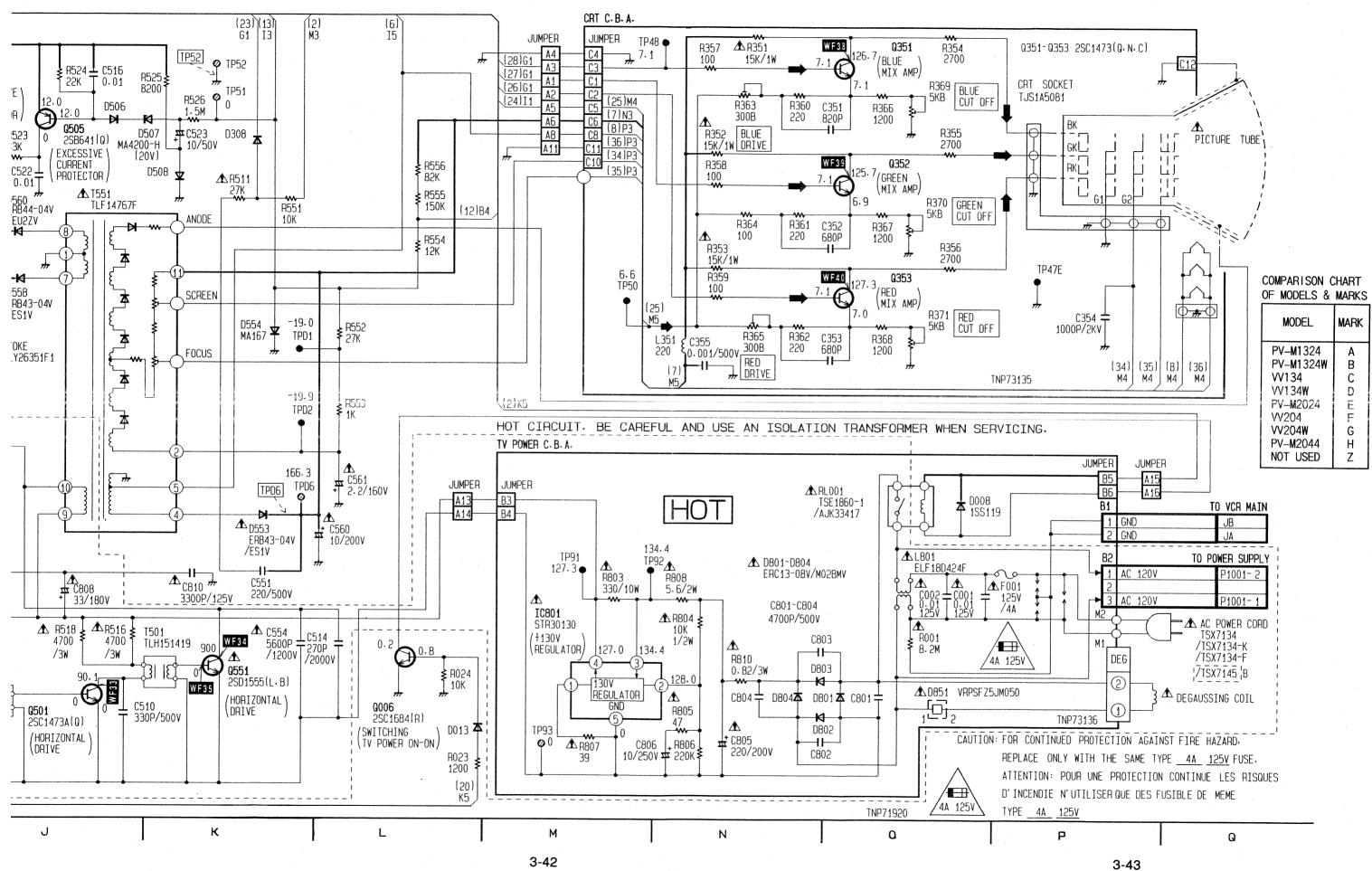
0

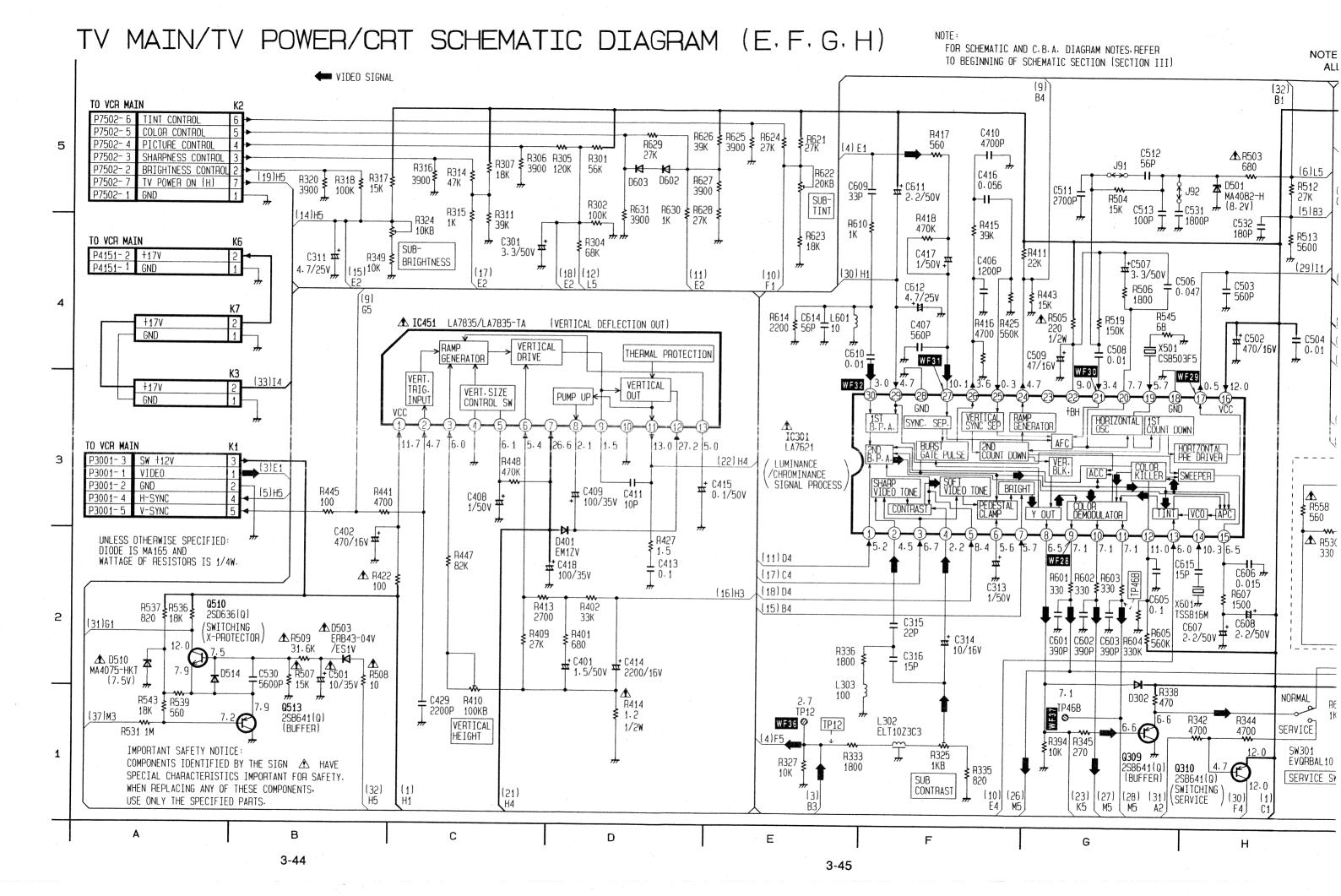
6.6 R342 C801 =

2SB6411

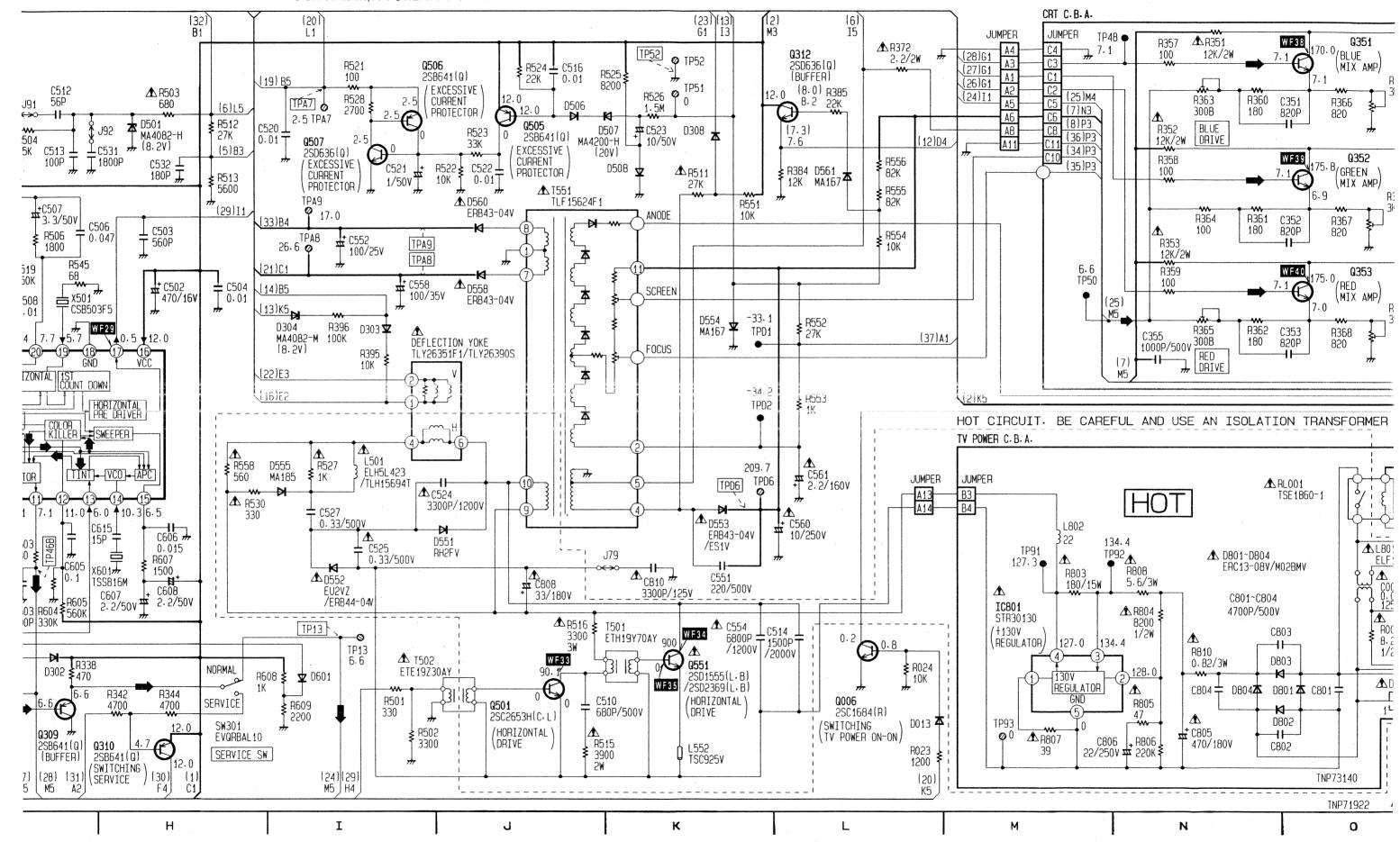
NOTE: ALL PARTS ON TV MAIN,TV POWER AND CRT C.B.A. HAVE LEADS.





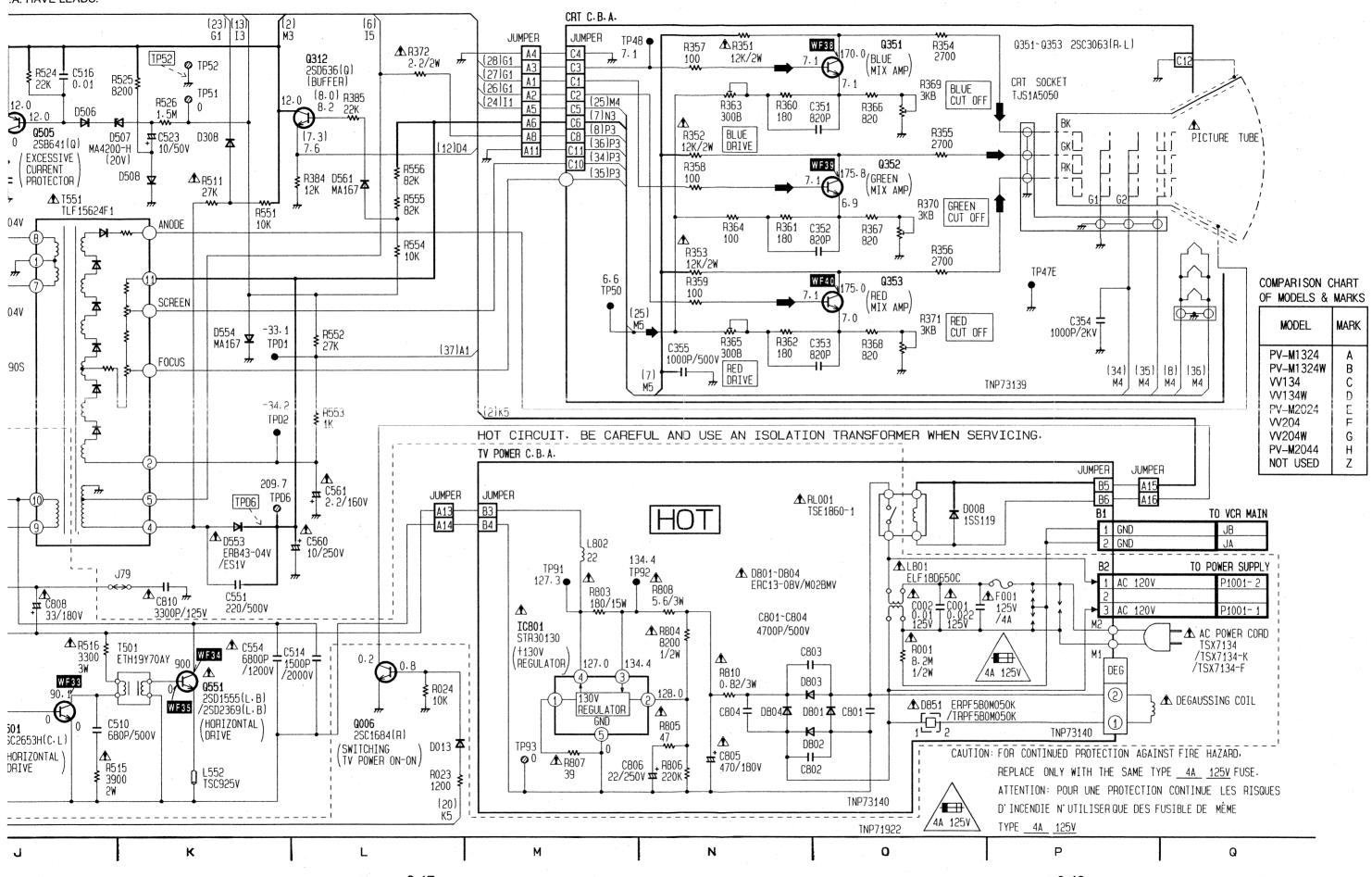


3-46



3-47





INTERCONNECTION SCHEMATIC DIAGRAM

NOTE: FOR SCHEMATIC AND C.B.A. DIAGRAM TO BEGINNING OF SCHEMATIC SECTI

TV MAIN		
TRANSISTOR		
Q006	. L-1	
Q309	G-1	
Q310	H-1	
Q312	L-5	
Q501	J-1	
Q505	J-5	
Q506	1-5	
Q507	I-5	
Q510	A-2	
Q513	B-1 .	
Q551	K-2	
	С	
IC301	E-3	
IC451	C-4	
CONNECTOR		
K1	A-3	
K2	A-5	
K3	A-3	
K6	A-4	
K7 .	A-4	
A1	M-5	
A2	M-5	
A3	M-5	
A4	M-5	
A5	M-5	
A6	M-5	
8 A	M-5	
A11	M-5	
A13	L-3	
A14	L-2	
A15	P-3	
A16	P-3	

TV POWER

IC801 M-2 CONNECTOR

TEST POINT

P-2

M-3

M-2

P-3

P-3

M-2

M-2

M-1

B 2

B3

B4

B 5

B6

TP91

TP92

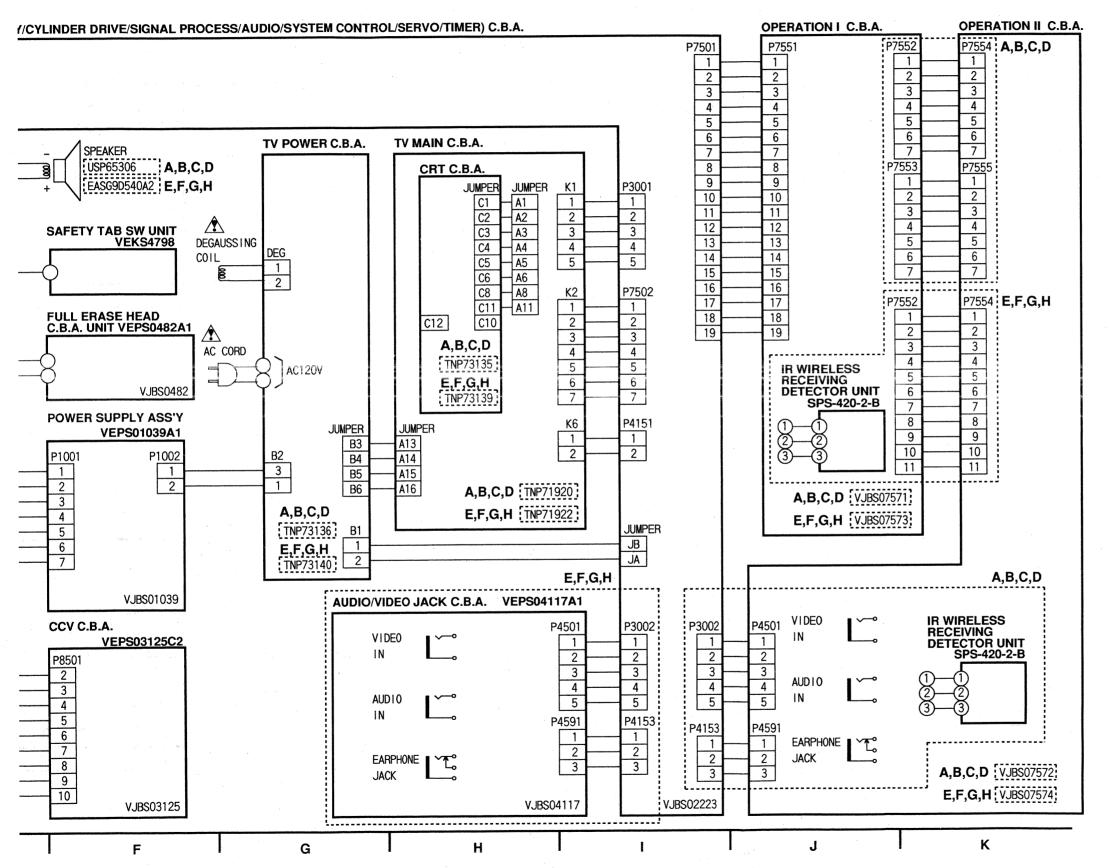
TP93

TV MAIN		
TEST POINT		
TP12	E-1	
※ TP12	E-1	
TP13	1-2	
※ TP13	1-2	
TP46B	G-1	
ЖTР46В	G-2	
TP51	K-5	
ЖTР51	1-3	
TP52	K-5	
※ TP52	K-5	
TPA7	1-5	
※TPA7	1-5	
TPA8	1-4	
≫TPA8	1-4	
TPA9	1-4	
≫TPA9	1-4	
TPD1	K-3	
TPD2	K-3	
TPD6	K-3	
ЖTPD6	K-3	
ADJUS	TMENT	
R324	C-4	
R325	F-1	
R410	C-1	
R622	E-5	
★ : CONPONENT SIDE		

CRT			
TRANSISTOR			
0351	0-5		
Q352	0-4		
0353	0-4		
CONNE	CTOR		
C1	M-5		
C2	M-5		
C3	M-5		
C4	M-5		
C5	M-5		
C6	M-5		
C8 -	M-5		
C10	M -5		
C11	M-5		
C12	Q-5		
	POINT		
TP47E	P-4		
TP48	N-5		
TP50	M-4		
	TMENT		
R363	N-5		
R365	N-4		
R369	0-5		
R370	0-4		
R371	0-4		

	MODE SELECT	LOADING MOTOR	CYLINDER UNIT	HEAD AMP ASS'Y		YLINDER DRIVE/SIGNAL PROCE
5	SWITCH VSSS0129	P.C.B.	PII 1 2 3 4	1 2 3 4 4	P2601 1 2 3 4	
		8 8,7	5 6 7 8	6 7	5 6 7 8 9 10	SPEAKER USP65306 A,B,C,D EASG9D540A2 E,F,G,H
4		CAPSTAN MOTOR DRIVE C.B.A.	UPPER CYLINDER UNIT PIN 1 2	11 12 13 P3503 14 15 15 P3503	11 12 13 14 P6001 15 16 12	SAFETY TAB SW UNIT VEKS4798 DEGAL COIL
		P2502 1	3 4 5 6	3 4 18 5 19	17 17 18 19 20 21 21 22	FULL ERASE HEAD C.B.A. UNIT VEPS0482A1
3	1 2 3 4 5 6	1 2 5 6 7 4 5 6 P2501	P6201	VJBS0563; H VJBS0564;	P1201	VJBS0482 POWER SUPPLY ASS'Y VEPS01039A1 P1001 P1002
	7 8 9 10	7 8 9 10 11 12	5 PIN T	UHF/VHF TUNER/TV DEMODULATOR UNIT VEQS0562	H 5 6	1 2 1 2 3 4 5 6
2	13	13 14 15 9 10 11	7 8 9 10 11 6 6 6 7	UHF/VHF O	OUT 7	7 VJBS01039 CCV C.B.A.
		P2503 16	13 14 9 9 9 9		P3002	VEPS03125C2 P8501 2 3 4
1	1 2 3 4 5 6 VJBS00B59	1 17 18 3 4 20 5 6 VJBS02178	17 18 19 20 21 22	VJBS07505	5 6 7 8 9	4 5 6 7 8 9 10 VJBS03125
	Α	В	С	D	T E	F T

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN AND HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.



COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-M1324	A
PV-M1324W	B
VV134	C
VV134W	D
PV-M2024	E
VV204	F
VV204W	G
PV-M2044	H
NOT USED	Z

C.B.A./UNIT NUMBER CHART

MAIN C.B.A.		
C.B.A. NUMBER	MODEL NUMBER MARK	
VEPS02223A1	A, B, C, D	
VEPS02223B1	E,F,G	
VEPS02223C1	Н	

OPERATION C.B.A.		
C.B.A. NUMBER	MODEL NUMBER MARK	
VEPS07571A1	A, B, C, D	
VEPS07573A1	E, F, G, H	

OPERATION II C.B.A.		
C.B.A. NUMBER	MODEL NUMBER MARK	
VEPS07572A1 VEPS07574A1	A, B, C, D E, F, G, H	

HEAD AMP ASS'Y		
ASS'Y NUMBER	MODEL NUMBER MARK	
VEPS0563CA1 VEPS0564CA1	A, B, C, D, E, F, G H	

TV MAIN C.B.A.		
C.B.A. NUMBER	MODEL NUMBER MARK	
TNP71920CC TNP71922CC	A, B, C, D E, F, G, H	

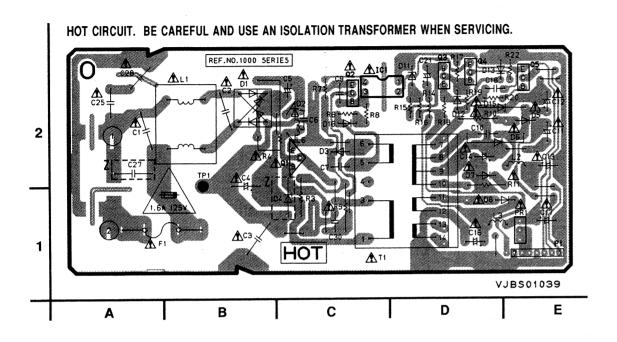
TV POWER C.B.A.		
C.B.A. NUMBER	MODEL NUMBER MARK	
TNP73136BB TNP73140BB	A, B, C, D E, F, G, H	

CRT C.B.A.		
C.B.A. NUMBER	MODEL NUMBER MARK	
TNP73135AA TNP73139AA	A, B, C, D E, F, G, H	

CYLINDER UNIT		
UNIT NUMBER	MODEL NUMBER MARK	
VEGS0370 VEGS0372	A, B, C, D, E, F, G H	

UPPER CYLINDER UNIT		
UNIT NUMBER	MODEL NUMBER MARK	
VEHS0536 VEHS0537	A, B, C, D, E, F, G H	

IV. CIRCUIT BOARD DIAGRAMS POWER SUPPLY ASS'Y VEPS01039A1



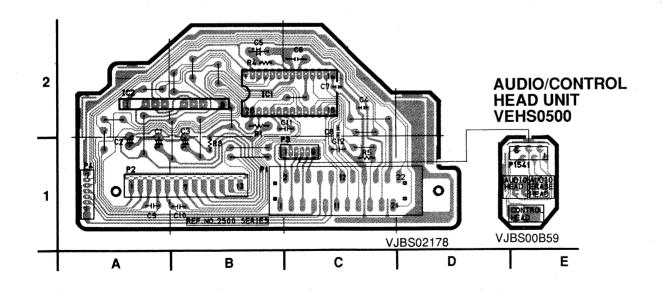
NOTE:

FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION (SECTION III)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ANVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.

POWER	SUPPLY
TRANS	ISTOR
Q1001	C-2
Q1002	C-2
Q1003	D-2
Q1004	D-2
Q1005	E-2
-	C
IC1001	C-2
CONNE	CTOR
P1001	E-1
TEST	POINT
TP1001	B-2

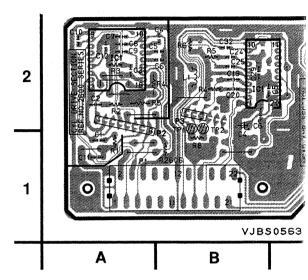
CAPSTAN MOTOR DRIVE C.B.A. VEPS02178A1



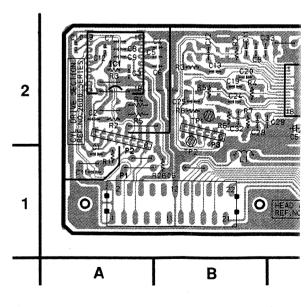
LEADLESS COMPONENT PARTS LOCATION GUIDE

CAPSIAN	MOTOR	DRIVE C. B.	. A.
R2503	B-1	C2508	C-
R2504	B-2	C2509	A-
R2505	C-1	C2510	В-
C2504	C-2	C2511	C-
C2507	C-2	C2512	C-

HEAD AMP ASS'Y VEPS

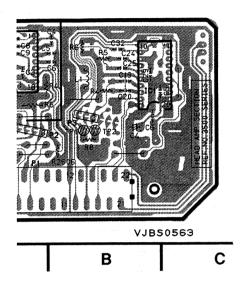


HEAD AMP ASS'Y VEPS



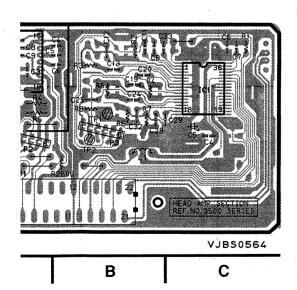
P ASS'Y VEPS0563CA1 (A,B,C,D,E,F,G)



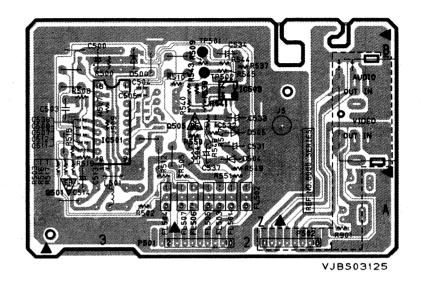


LEADLE	SS COM	PONENT P	ARTS	LOCATION	GUIDE
HEAD A	MP ASS	' Υ			
R2601	A-1	C2603	A-2	C3505	C-2
R2602	A-2	C2604	B-2	C3506	B-2
R2603	A-2	C2605	B-2	C3519	B-2
R2606	B-1	C2606	B-2	C3520	B-2
R3504	B-2	C2607	A-2	C3524	B-2
R3405	B-2	C2608	A-2	C3525	B-2
R3506	B-2	C2609	A-2	C3529	B-2
R3508	B-1	C2610	A-2	C3532	B-2
C2601	A-1	C2611	A-1		
C2602	A-2	C2612	A-2		

PASS'Y VEPS0564CA1 (H)



LEADLI	ESS COM	APONENT	PARTS	LOCATION	GUIDE
HEAD /	AMP ASS	S' Y	•		
R2601	A-1	C2602	A-2	C3507	C-2
R2602	A-2	C2603	A-2	C3508	B-2
R2603	A-2	C2604	B-2	C3511	B-2
R2606	B-1	C2605	B-2	C3512	B-2
R3501	C-2	C2606	B-2	C3513	B-2
R3502	B-2	C2607	A-2	C3519	B-2
R3503	B-2	C2608	A-2	C3520	B-2
R3504	B-2	C2609	A-2	C3524	B-2
R3405	B-2	C2610	A-2	C3525	B-2
R3506	B-2	C2611	A-1	C3528	B-2
R3507	B-2	C2612	A-2	C3529	C-2
R3508	B-2	C3504	C-2	C3532	B-2
C2601	A-1	C3506	C-2	C3533	C-2



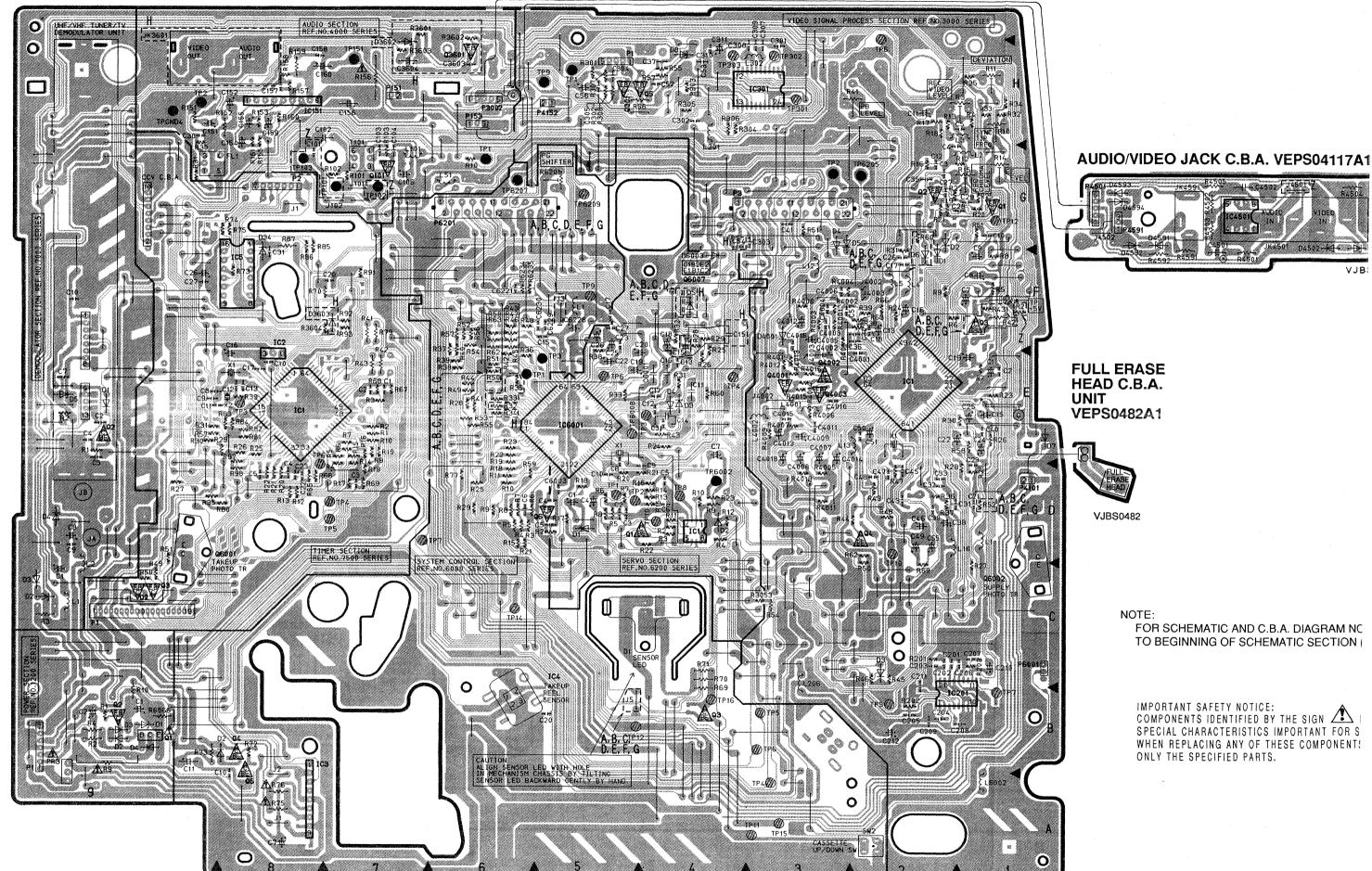
LEADLESS COMPONENT PARTS LOCATION GUIDE CCV C.B.A. Q8501 A-3 R8517 A-3 R8549 B-2

00 V 0. I). n.					
08501	A-3	R8517	A-3	R8549	B-2	
Q8505	B-2	R8518	B-3	R8550	B-2	
R8500	B-3	R8519	B-3	R8551	A-2	
R8502	A-2	R8537	B-2	C8504	B-3	
R8503	A-3	R8539	B-2	C8505	B-3	
R8505	B-2	R8540	B-2	C8507	B-3	
R8507	B-3	R8541	B-2	C8508	B-3	
R8508	B-3	R8543	B-2	C8511	B-3	
R8509	B-2	R8544	B-2	C8512	B-3	
R8510	B-2	R8545	B-2	C8513	A-3	
R8512	B-2	R8546	B-2	C8532	B-2	
R8516	A-3	R8547	B-2	C8538	B-3	

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-M1324 PV-M1324W VV134 VV134W PV-M2024 VV204 VV204W	A B C D E F
PV-M2044 NOT USED	H Z

MAIN (POWER/SIGNAL PROCESS/AUDIO/SYSTEM CONTROL/SERVO/TIMER) C.B.A. VEPS02223A1 (A,B,C,D) / VEPS02223B1 (E

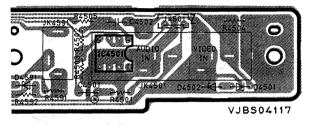


4-5

4-6^{VJBS02223}

,D) / VEPS02223B1 (E,F,G) / VEPS02223C1 (H)

DEO JACK C.B.A. VEPS04117A1 (E,F,G,H)



SE

Δ1

OR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER) BEGINNING OF SCHEMATIC SECTION (SECTION III)

PORTANT SAFETY NOTICE:
)MPONENTS IDENTIFIED BY THE SIGN A HAVE 'ECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. HEN REPLACING ANY OF THESE COMPONENTS, USE ILY THE SPECIFIED PARTS.

MAIN			
TRANS	ISTOR		
01201	B-9		
01202	B-9		
Q3001	G-1		
03002	G-2		
03003	F-1		
03004	D-2		
Q3005	H-4		
Q3301	H-5		
03601	H-6		
04001	E-3		
04002	E-3		
04003	E-3		
Q4101	G-7		
Q6001	D-8		
Q6002	C-1		
06003	B-4		
Q6004	B-8		
Q6005	A-8		
06006	D-5		
Q6007	F-4		
06201	D-5		
07002	E-9		
07502	C-9		
07503	C-9		

MA	AIN
	C
IC3001	E-2
IC3201	B-2
IC3301	H-3
IC4151	H-8
106001	E-5
106003	B-8
106004	C-5
IC6201	D-4
107501	E-8
107502	F-8
107503	F-8

MAIN			
CONNE	CTOR		
P1201	B-9		
P3001	H-5		
P3002	H-6		
P3003	G-4		
P4101	D-1		
P4151	H-7		
P4152	H-5		
P4153	H-6		
P6001	C-1		
P6201	G-6		
P7501	C-9		
P7502	G-8		

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-M1324	A
PV-M1324W	B
VV134	C
VV134W	D
PV-M2024	E
VV204	F
VV204W	G
PV-M2044	H
NOT USED	Z

MAIN					
ADJUS	ADJUSTMENT				
R3003	H-1				
R3010	H-1				
R3011	H-1				
R3014	G-1				
R3015	G-1				
R3041	H-2				
R6201	G-5				

1	1	, ., .
G-6	TP6012	B-5
C-9	TP6014	C-6
G-8	TP6015	A-3
	TP6016	B-4
	TP6201	D-5
·	TP6202	D-5
	TP6203	E-4
N I	TP6204	E-4
	TP6205	G-2
MENT	TP6206	E-5
H-1	TP6207	G-6
H-1	TP6208	D-4
H-1	TP6209	G-5
G-1	TP6210	D-4
G-1	TP7503	E-8
H-2	TP7504	D-7
G-5	TP7505	D-7
	TP7506	E-8
	TPGND4	H-9
	TP +5V	F-1

MAIN

TEST POINT

G-3

B-2

H-2

B-1

H-5

D-2

G-1

H-3

H-3

H-4

G-6

H-9

G-7

G-7

G-8

H-7

E-5

D-4

E-5

A-3

B-3

B-3

E-5

F-5

A-3

TP3001

TP3002

TP3005

TP3006

TP3007

TP3009

TP3010

TP3012

TP3301

TP3302

TP3303

TP4001

TP4002

TP4101

TP4102

TP4103

TP4151

TP6001

TP6002

TP6003

TP6004

TP6005

TP6006

TP6007 TP6008

TP6009

TP6011

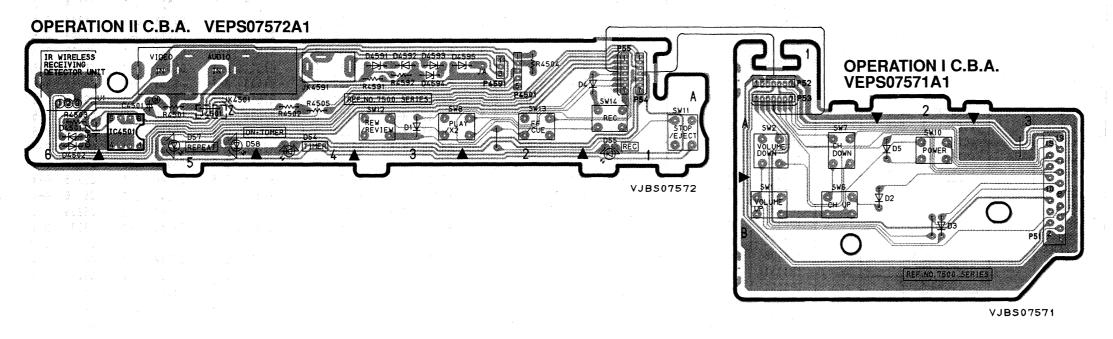
		IPONENT P	ARTS	LOCATION	GUIDE								
MAIN C													
Q1202	B-9	R3040	E-3	R4019	E-3	R6054	F-6	R7510		C3023	E-1	C4104	H-
Q3001	G-1	R3043	F-1	R4030	H-9	R6055	E-6	R7512		C3026	F-2	C4157	H-
Q3002	G-2	R3044	D-3	R4031	G-9	R6056	F-6	R7513		C3027	G-2	C4158	H-
Q3003	F-1	R3045	C-2	R4101	G-7	R6057	F-6	R7514		C3028	G-1	C6003	D-
Q3004	D-2	R3046	C-2	R4102	G-7	R6058	F-6	R7515		C3029	G-1	C6004	D-
Q3005	H-4	R3047	D-2	R4103	H-7	R6059	E-6	R7516		C3031	D-1	C6005	D-
Q3301	H-5	R3048	D-2	R4151	H-9	R6062	F-6	R7517		C3032	D-2	C6006	D-
Q3601	H-6	R3049	D-2	R4153	H-8	R6063	F-6	R7518		C3033	D-2	C6010	. B-
04001	E-3	R3050	C-2	R4155	G-8	R6072	B-8	R7519		C3034	F-2	C6015	F-
Q4002	E-3	R3051	G-3	R4157	H-8	R6077	D-6	R7520		C3035	G-2	C6017	F-
Q4003	E-3	R3052	D-1	R4158	H-8	R6202	D-4	R752		C3036	F-2	C6020	B-
Q4101	G-7	R3053	C-3	R4160	H-8	R6203	D-4	R7522		C3037	H-4	C6202	D-
Q6003	B-4	R3054	C-3	R4161	G-8	R6204	D-4	R752		C3039	D-2	C6203	D-
Q6004	B-8	R3055	H-4	R6002	D-5	R6205	D-5	R7526		C3040	E-1	C6205	D-
Q6005	A-8	R3057	H-4	R6003	D-6	R6206	D-5	R752		C3041	G-3	C6206	D-
Q6006	D-5	R3058	E-1	R6004	D-6	R6207	D-5	R7529		C3043	D-2	C6208	D-
Q6007	F-4	R3059	C-2	R6005	D-6	R6208	D-5	R7530		C3045	D-2	C6209	D-
Q6201	D-5	R3060	G-2	R6006	D-6	R6209	D-4	R753		C3047	D-2	C6210	D-
Q7002	E-9	R3061	G-1	R6007	D-6	R6210	D-4	R753		C3048	D-2	C6212	E-
Q7502	C-9	R3062	D-2	R6008	D-6	R6211	D-4	R7539		C3050	E-2	C6213	E-
Q7503	C-9	R3063	F-2	R6009	D-6	R6212	D-4	R7549		C3053	H-4	C6217	E-
R1201	B-9	R3066	F-2	R6010	D-6	R6213	D-4	R7550		C3054	G-4	C6221	F-
R3004	H-1	R3201	C-2		D-6	R6214	D-4	R755		C3057	F-2	C6223	F-
R3005	F-1	R3202	B-2	R6015	D-6	R6215	D-4	R755		C3201	C-2	C6227	F-
R3006	F-2	R3203	C-1	R6018	D-6	R6216	D-4	R756		C3202	C-2	C6229	F-
R3007	E-1	R3301	H-5	R6019	E-6	R6217	D-5	R7561		C3203	C-2	C6230	F-
R3008	F-1	R3302	H-5	R6021	D-6	R6218	D-5	R756		C3204	B-2	C6231	E-
R3009	F-2	R3303	H-4	R6022	E-6	R6220	D-5	R7568		C3205	B-2	C7002	E-
R3012	G-1	R3304	H-4	R6023	E-6	R6221	D-4	R7569		C3206	C-1	C7004	E-
R3013	H-2	R3305	H-4	R6025	D-6	R6222	D-4	R7570		C3207	C-1	C7005	E-
R3016	G-2	R3306	H-4	R6028	E-6	R6223	D-4	R757		C3208	B-1	C7007	E-
R3017	H-2	R3307	H-5	R6029	D-6	R6224	E-4	R757		C3209	B-2	C7009	D-
R3018	H-2	R3308	H-5	R6032	E-6	R6225	F-4	R757		C3211	C-2	C7010	F-
R3019	G-2	R3601	H-7	R6033	E-6	R6226	E-4	R758		C3301	H-3	C7501	E-
R3020	G-1	R3602	H-6	R6034		R6228	F-4	R758		C3302	H-4	C7502	E-
R3021	G-2	R3603	H-7	R6035	E-6	R6229	F-4	R758		C3303	G-3	C7503	D-
R3022	G-2	R3604	F-8	R6036	F-6	R6231	E-4	R758		C3304	H-5	C7504	E-
R3023	E-1	R4001	F-3	R6037	F-6	R6232	F-4	R7584		C3305	H-5	C7505	D-
R3024	F-2	R4002	F-3	R6038	E-6	R6233	E-5	R758		C3307	H-3	C7508	E-
R3025	G-1	R4003	F-3	R6039	E-6	R6234	F-6	R758		C3308	H-4	C7509	E-
R3026	E-1	R4004	F-3	R6040	E-6	R6235	F-6	R759		C3309	H-3	C7510	E-
R3027	C-1	R4005	D-3	R6041	E-6	R6238	E-5	R759		C3310	H-4	C7511	E-
R3028	D-2	R4006	E-3	R6042	E-6	R6243	E-4	R759		C3603	H-6	C7512	E-
R3029	D-1	R4007	E-3	R6043	F-6	R6260	E-4	R759		C4001	E-2	C7513	E-
R3030	E-2	R4008	F-3		E-6	R7001	E-9	R759		C4002	E-3	C7517	E-
R3031	F-2	R4009	E-3		E-6	R7002	E-9	C300:		C4003	F-3	C7520	F-
R3032	H-1	R4010	G-6	R6046	F-6	R7501	E-7	C300		C4004	F-3	C7522	D-
R3033	H-1	R4011	D-3		F-6	R7502	E-7	C300		C4006	F-3	C7523	D-
R3034	H-1	R4012	E-3		F-6	R7503	E-7	C300		C4010	E-3	C7527	F-
R3035	H-1	R4013	E-3		E-6	R7504	D-7	C301		C4011	E-3	C7531	F-
R3036	D-2	R4014	E-3		E-6	R7505	E-7	C301		C4015	E-3		
R3037	D-2	R4015	E-3		E-6	R7506	E-7	C301		C4016	F-3		
R3038	F-2	R4016	E-3	R6052	F-6	R7507	E-7	C301	8 F-2	C4030	H-9		

R3039 F-2 R4018 D-3

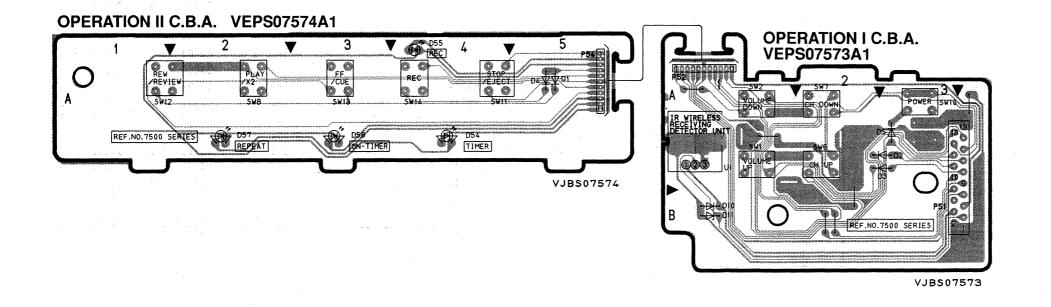
R6053 E-6 R7509 E-7 C3021 D-1 C4103 H-7

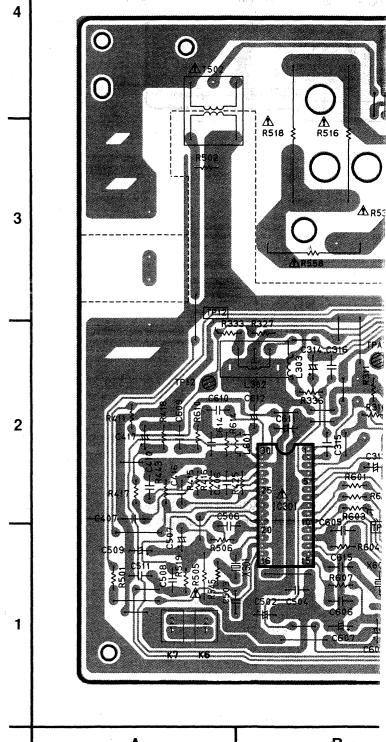
TV MAIN C.B.A. TNP71920CC (

NOTE: FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES,RE TO BEGINNING OF SCHEMATIC SECTION (SECTIC

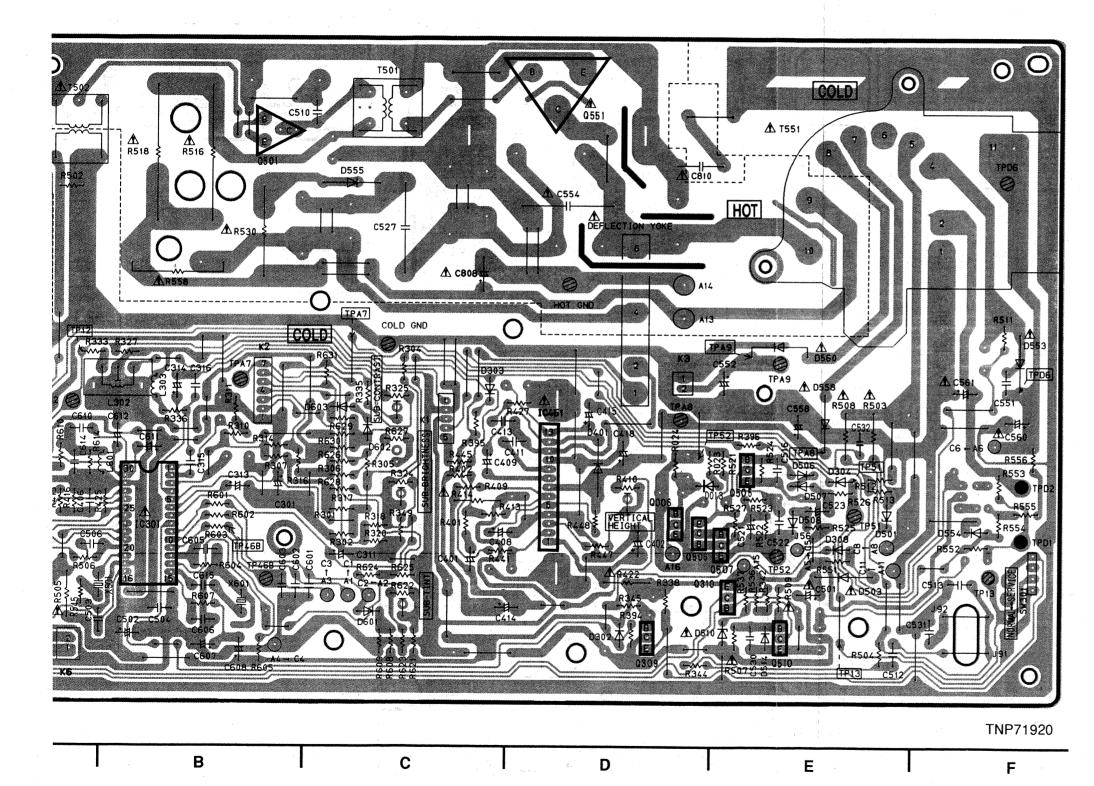


OPERATION I/II C.B.A. (E,F,G,H)





TIC AND C.B.A. DIAGRAM NOTES, REFER OF SCHEMATIC SECTION (SECTION III) IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN AND HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.



COMPARISON CHART OF MODELS & MARKS

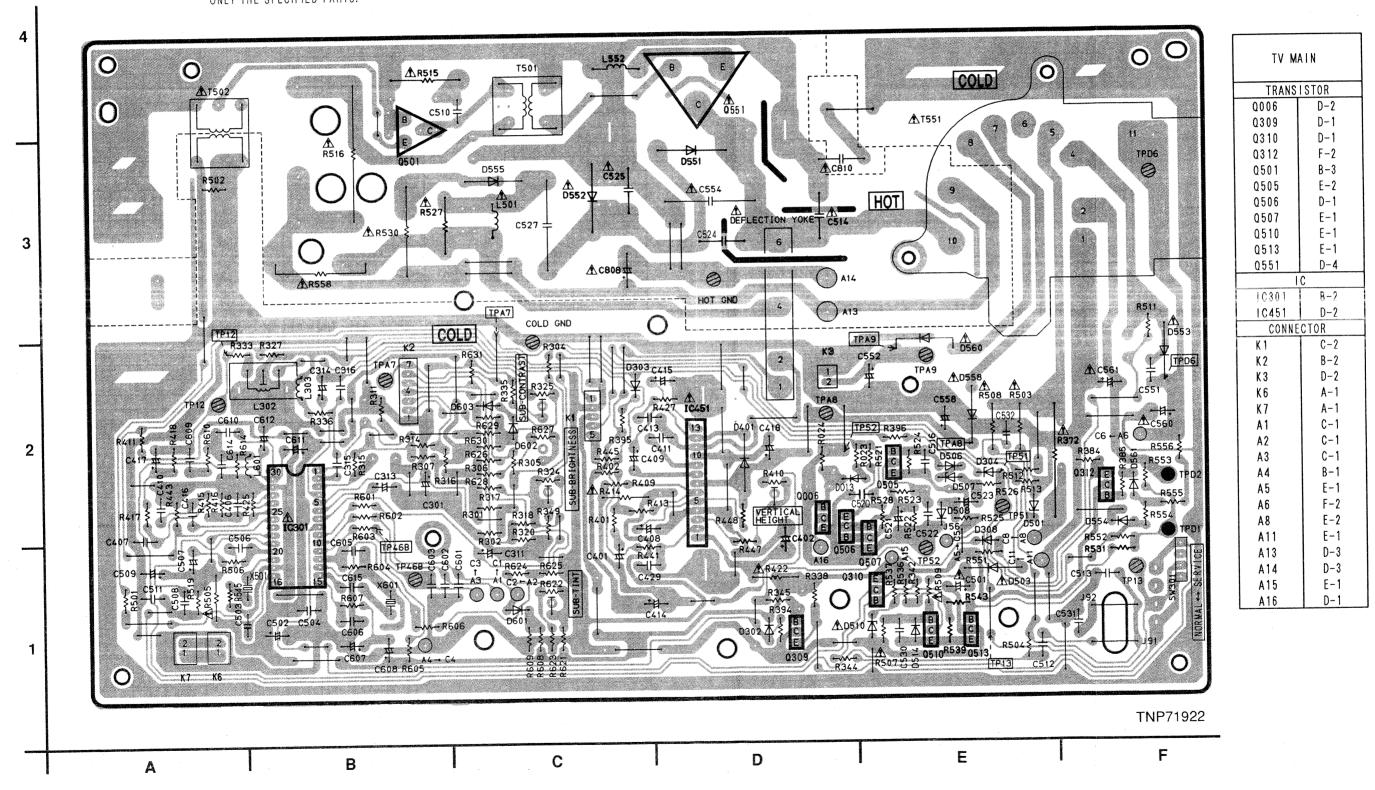
	or modeled a	100 11 11 10
	MODEL	MARK
	PV-M1324	Α
	PV-M1324W	В
	W134	C
	VV134W	D
•	PV-M2024	Е
	VV204	F
	VV204W	G
	PV-M2044	Н
	NOT USED	Z

TV MAIN			
TRANS	SISTOR		
0006	D-2		
Q309	D-1		
0310	D-1		
0501	B-3		
Q505	E-2		
Q506	D-1		
Q507	E-1		
Q510	E-1		
Q551	D-4		
	C		
1C301	B-2		
IC451	D-2		
CONNECTOR			
K 1	C-2		
K2	B-2		
K3	D-2		
K 6	A-1		
K7	A-1		
A1	C-1		
A2	C-1		
A3	C-1		
A4	B-1		
A5	E-1		
A6	F-2		
A8	E-1		
A11	E-1		
A13	D-3		
A14	D-3		
A15	E-1		
A16	D-1		

TV MAIN				
TEST	POINT			
TP12	A-2			
※ TP12	A-3			
TP13	F-1			
※ TP13	E-1			
TP46B	B-1			
ЖТР46В	B-1			
TP51	E-2			
% TP51	E-2			
TP52	E-1			
XTP52	E-2			
TPA7	B-2			
% TPA7	C-3			
TPA8	D-2			
%TPA8	E-2			
TPA9	E-2			
% TPA9	E-2			
TPD1	F-2			
TPD2	F-2			
TPD6	F-3			
% TPD6	F-2			
	TMENT			
R324	C-2			
R325	C-2			
R410	D-2			
R622	C-1			
	NENT SID			

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN AND HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.

NOTE:
FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER
TO BEGINNING OF SCHEMATIC SECTION (SECTION III)



TV M	AIN
TEST	POIN
TP12	A
※ TP12	A
TP13	F
※ TP13	E
TP46B	В
※ TP46B	В
TP51	E
※ TP51	E
TP52	E
ЖTР52	E
TPA7	В
፠ TPA7	(
TPA8	
※ TPA8	E
TPA9	E
፠ TPA9	ŀ
TPD1	F
TPD2	F
TPD6	
<u> </u> ЖТРD6	
ADJUS	T
R324	
R325	(
R410	
R622	(
	NEN'

COMPARISON COOF MODELS &

PV-M1324 PV-M1324W VV134 VV134W PV-M2024 VV204 VV204W PV-M2044 NOT USED

TV MAIN Q309 D-1 Q310 D-1 0312 F-2 Q501 B-3Q505 E-2 0506 Q507 E-1 Q510 E-1 0513 E-1 Q551 D-4 IC301 IC451 D-2 CONNECTOR K 2 B-2 K3 D-2 K 6 K7 A 1 C-1 A2 C-1 A3 C-1 A5 E-1

F-2

E-2

E-1

D-3

D-3

E-1

A6 A8

A11

A13

A14

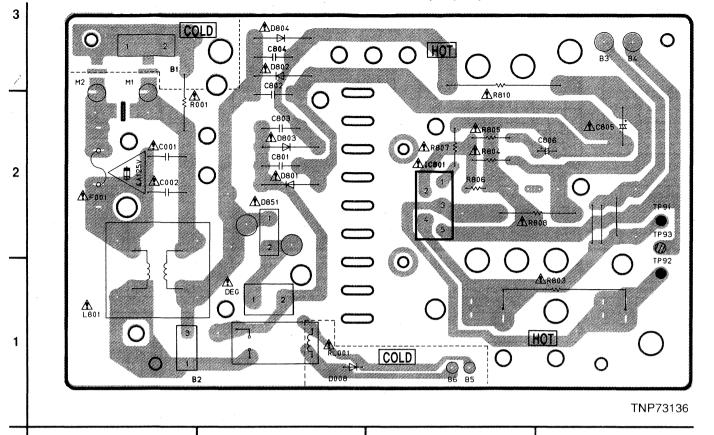
A15

·				
TV MAIN				
TEST	POINT			
TP12	A-2			
※ TP12	A-3			
TP13	F-1			
※ TP13	E-1			
TP46B	B-1			
ЖTР46В	B-1			
TP51	E-2			
※ TP51	E-2			
TP52	E-1			
ЖTР52	E-2			
TPA7	B-2			
ЖTРА7	C-3			
TPA8	D-2			
₩TPA8	E-2			
TPA9	E-2			
ЖTРА9	E-2			
TPD1	F-2			
TPD2	F-2			
TPD6	F-3			
ЖТРD6	F-2			
ADJUS	TMENT			
R324	C-2			
R325	C-2			
R410	D-2			
R622 C-1				
※ : CONPONENT SIDE				

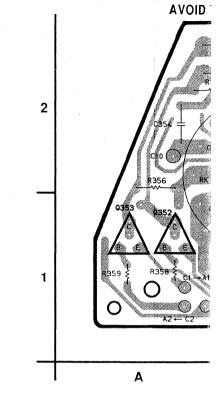
COMPARISON CHART
OF MODELS & MARKS

or modeled a	110 11 11 10
MODEL	MARK
PV-M1324	Α
PV-M1324W	В
VV134	С
VV134W	D
PV- M 2024	Ε
VV204	F
VV204W	G
PV- M 2044	; H
NOT USED	Ζ

TV POWER C.B.A. TNP73136BB (A,B,C,D)



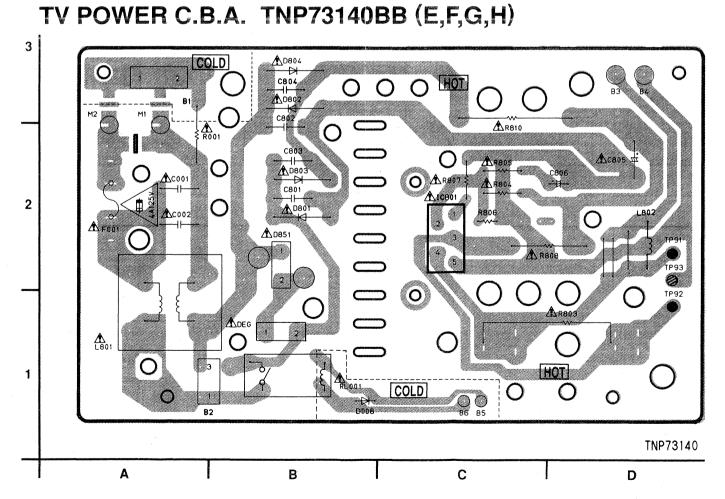
TV P	OWER
	C
10801	C-2
CONNE	CTOR
B1	A-3
B2	A-1
B3	D-3
B4	D-3
B5	C-1
B6	C-1
TEST	POINT
TP91	D-2
TP92	D-1
TP93	D-2

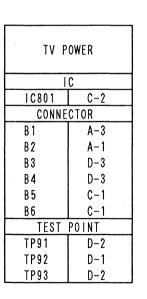


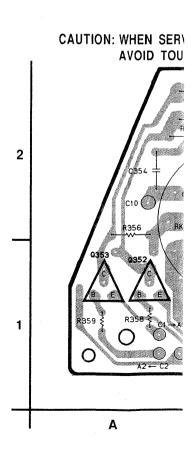
CRT C.B.A. T

CAUTION: WHEN !

CRT C.B.A. T

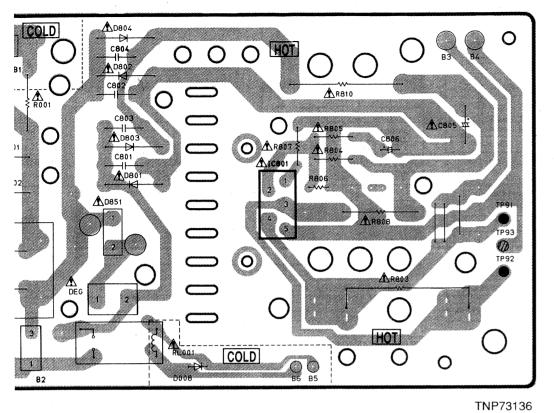






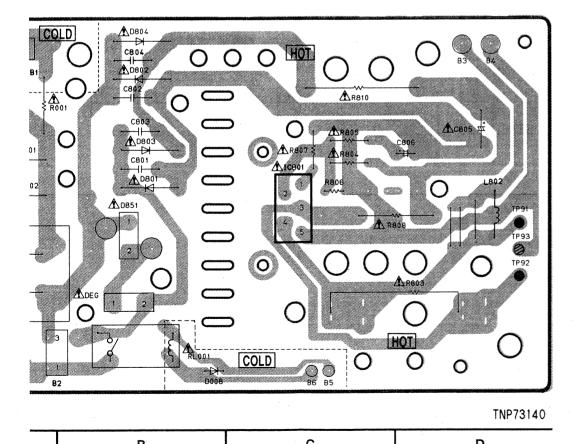
4-15

C.B.A. TNP73136BB (A,B,C,D)



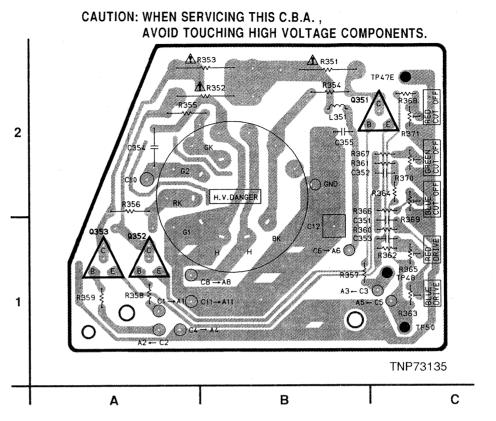
	TV POWER			
I	1	C		
I	IC801	C-2		
	CONNECTOR			
	B1	A-3		
	B2	A-1		
	В3	D-3		
	B4	D-3		
	B5	C-1		
	B6	C-1		
	TEST POINT			
	TP91	D-2		
	TP92	D-1		
	TP93	D-2		

D.B.A. TNP73140BB (E,F,G,H)

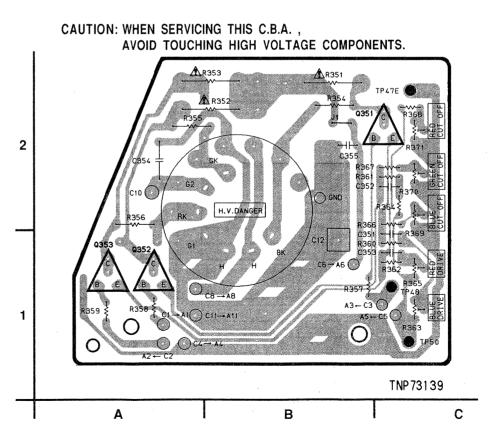


TV POWER			
	C		
10801	C-2		
CONNE	CTOR		
B1	A-3		
B2	A-1		
B3	D-3		
B4	D-3		
B5	C-1		
B6	C-1		
TEST	POINT		
TP91	D-2		
TP92	D-1		
TP93	D-2		

CRT C.B.A. TNP73135AA (A,B,C,D)



CRT C.B.A. TNP73139AA (E,F,G,H)

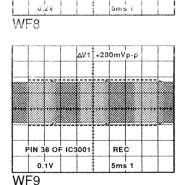


CRT			
TRANS	ISTOR		
Q351	B-2		
Q352	A-1		
0353	A-1		
CONNE	CTOR		
C1	A-1		
C2	A-1		
C3	C-1		
C4	A-1		
C5	C-1		
C6	B-1		
C8	B-1		
C10	A-2		
C11	B-1		
C12	B-1		
TEST	POINT		
TP47E	C-2		
TP48	C-1		
TP50	C-1		
	TMENT		
R363	C-1		
R365	C-1		
R369	C-1		
R370	C-2		
R371	C-2		

CRT				
TRANS	ISTOR			
0351	C-2			
Q352	A-1			
0353	A-1			
CONNE	CTOR			
C1 :	A-1			
C2	A-1			
C3	C-1			
C4	A-1			
C5	C-1			
C6	B-1			
C8	A-1			
C10	A-2			
C11	A-1			
C12	B-1			
	POINT			
TP47E	C-2			
TP48	C-1			
TP50	C-1			
	TMENT			
R363	C-1			
R365	C-1			
R369	C-2			
R370	C-2			
R371	C-2			

WAVEFORM PHOTOGRAPH

MAIN C.B.A. ΔV1 +200mVp-p PIN 9 OF 1C3001 REC PIN 29 OF IC3001 0.2V 0.10 20µs1 WF1 WF6 ΔV1 +270mVp-p PB PIN 36 OF IC3001 PIN 9 OF 103001 0.1V 20µs1 0.5V WF1 WF7 ΔV1 +5.00Vp-p PIN 37 OF IC3001 WF2 ΔV1 +1.000Vp-p PIN 15 OF IC3001 REC 0.5V 20µs1 WF3



ΔV1 +0.410Vp-p

PB

∆V1 +1.140Vp-p

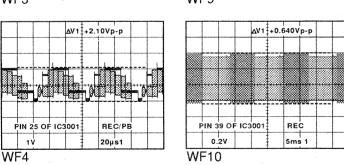
REC

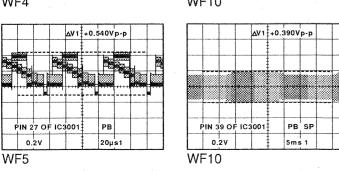
0.5ms1

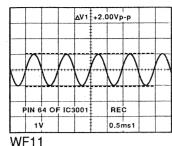
ΔV1 +0.400Vp-p

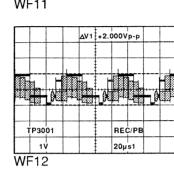
PB

20µs1









UPPER TP3002 -LOWER TP6205 0.1V 5V

UPPER WE13

LOWER WF17

UPPER TP3002 LOWER TP6205 0.1V 5V

UPPER WF13

LOWER WF17

UPPER TP3002 LOWER TP6205 0.1V 5V

UPPER WF13

LOWER WF17

0.5V

WF14

ΔV1 +380mVp-p

ΔV1 +230mVp-p

REC

5ms 2

PBSP

5ms 2

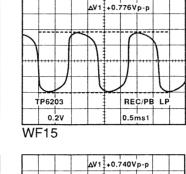
PB SLP

5ms 2

10ms1

ΔV1 +1.050Vp-p

ΔV1 +200mVp-p



TP6203

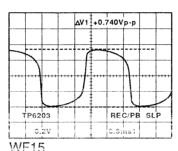
WF15

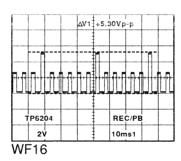
0.20

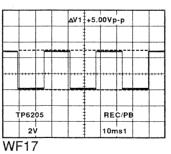
∆V1 +0.766Vp-p

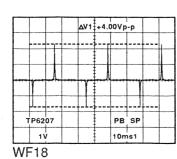
REC/PB SP

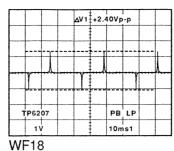
0.5ms1

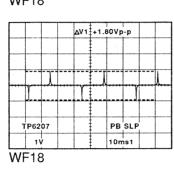


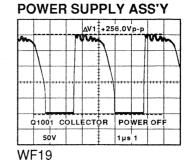


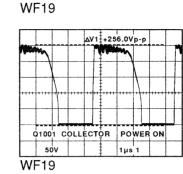




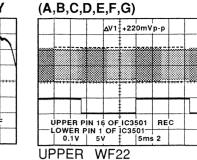




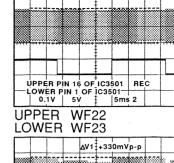


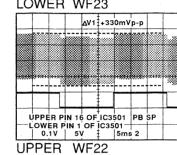


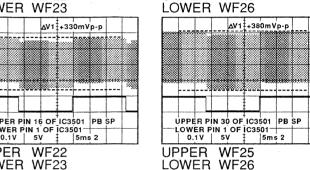
UHF/VHF TUNER/TV



HEAD AMP ASS'Y







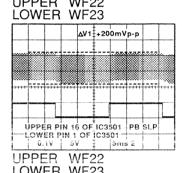
HEAD AMP ASS'Y

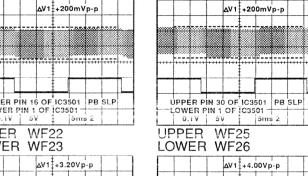
ΔV1 +230mVp-p

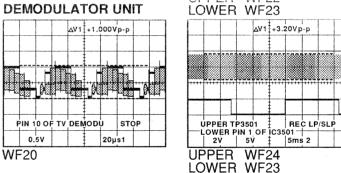
UPPER PIN 30 OF IC3501 REC LOWER PIN 1 OF IC3501 | 5ms 2

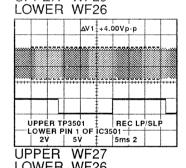
UPPER WF25

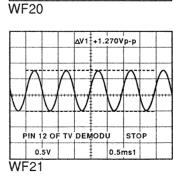
(H)

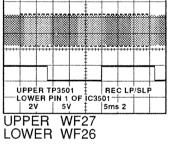


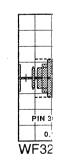












TV M/

PIN 9

WF28

-

PIN 1

WF29

 $\Downarrow J$

PIN 2

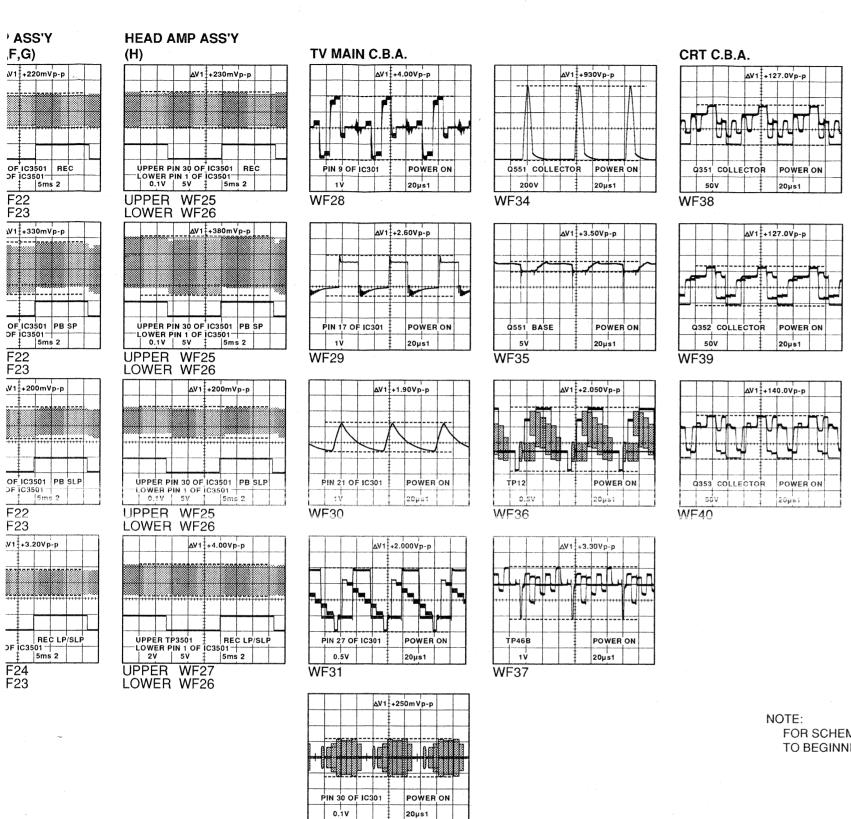
WF30

PIN 2

0.5

WF31





COMPARISON CHART OF MODELS & MARKS

	OI WODELS &	IAN-VI JIZ
	MODEL	MARK
	PV-M1324	Α
	PV-M1324W	В
	VV134	C
	VV134W	D
	PV-M2024	Ε
	VV204	F
	VV204W	G
	PV-M2044	Н
-	NOT USED	Z

FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION (SECTION III)

. 1 -		
	MODE	ST0
	PIN NO	N I
	100001	+
	PIN NO. ICG001 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	
	1	5
	1	1 0
		U
	3	1.1.
	1	+
	<u> </u>	
	1 5	-
	6	0
	1 7	
	8	1 0.
	a	0
	10	1 0.
	10	0.
	11	0
	10	+ - E
	12	J. 0.
	l 13	5.
	1/	1
	14	U.
	15	
	16	n
	17	U.
	- 1/	4.
	18	5.
	10	<u> </u>
	13	5. 0 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
	20	5.
	21	n
	00	10
	22	2.
	23	0.
	24	2
		ζ.
	25	0
	26	2
	20	
	28	
	20	
	25	
	30	1. 2. 0 0
	21	1
	20	1.
	32	۷.
	33	0
	24	-
	34	U
	35	
	36	0
	27	· ·
	3/	U.
	38	1.
	20	1
	39	1.
	40	2.
- 1	41	5
- 1	1 T	, V
l	42	U
1	43	2.
1	11	7
		<u></u>
. [45	2.
Ī	46	2.
ł	77	1
	4/	1.
- 1	48	0
ı	40	0
	- 73	
	50	۷.
[51	2.
ŀ	£2	<u></u>
ļ	JL	۲.
1	53	2.
Ī	54	5
	- FF	<u></u>
[- 55	U
ſ	56	0
		<u> </u>
Į.	5/	<u> </u>
1	58	2.
İ	50	2
ŀ	40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1. 2. 5. 0 0 2. 2. 2. 1. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L	bU	U

VOLTAGE CHART (SYSTE

MODE STOP FF REW

 2.7
 4.8
 4.8

 14.5
 14.5
 14.5

 14.0
 14.0
 14.0

 14.5
 14.0
 14.0

 14.2
 14.2
 14.2

0.7 0.7 0.7

0.1 0.7 0.7

0 0.2 0.2

0.5 0.5 0.5

 5.2
 5.2
 5.2

 1.1
 2.5
 2.5

 2.5
 2.5
 2.5

 2.6
 0.1
 0.1

3.1 3.1 3.1

1.7 1.7 1.6 1.6 1.6 1.6 1.6 1.6

22 1.6 1.6 23 1.6 1.6 24 1.6 1.6

> 2.7 4.0 5.1 0 0.2 0.2

14.5 | 13.9 | 13.9

2.7 4.1 5.1

3 14.6 14.2 14.2 4 14.5 14.0 14.0

2.7 4.1

5 2.7 4.1 5.1 6 14.5 14.5 14.5 7 14.0 14.0 14.0 8 2.7 4.8 4.8

> 13.3 13.0 13.3 13.0 0.1 0.1

0.6 0.6

6 2.7 2.7 2.7

7 2.6 2.6 2.6 8 3.0 9.0 9.0

9 0.9 0.9 0.9 10 2.9 2.9 2.9

11 5.1 5.1 5.1 12 3.9 3.9 3.9

13 3.9 3.9 3.9 14 3.9 3.9 3.9

 15
 1.2
 1.2
 1.2

 16
 13.3
 13.3
 13.3

 17
 13.3
 13.3
 13.3

 18
 0.1
 0.1
 0.1

1.6

1.6

5.1

PIN NO.

IC2501

14

20µs1

Q501 COLLECTOR POWER ON

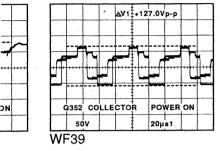
ΔV1 +187.0Vp-p

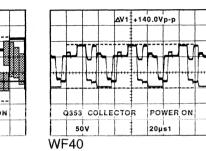
WF32

50V

WF33

CRT C.B.A. AV1 +127.0Vp-p AV2 +127.0Vp-p Q351 COLLECTOR POWER ON S0V 20µs1 WF38





COMPARISON CHART OF MODELS & MARKS

MODEL MARK PV-M1324 A PV-M1324W B VV134 C VV134W D PV-M2024 E VV204 F VV204W G PV-M2044 H NOT USED 7		
PV-M1324W B VV134 C VV134W D PV-M2024 E VV204 F VV204W G PV-M2044 H	MODEL	MARK
N(I) (INH) /	PV-M1324W VV134 VV134W PV-M2024 VV204 VV204W PV-M2044	B C D E F G H

NOTE:

FOR SCHEMATIC AND C.B.A. DIAGRAM NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION (SECTION III)

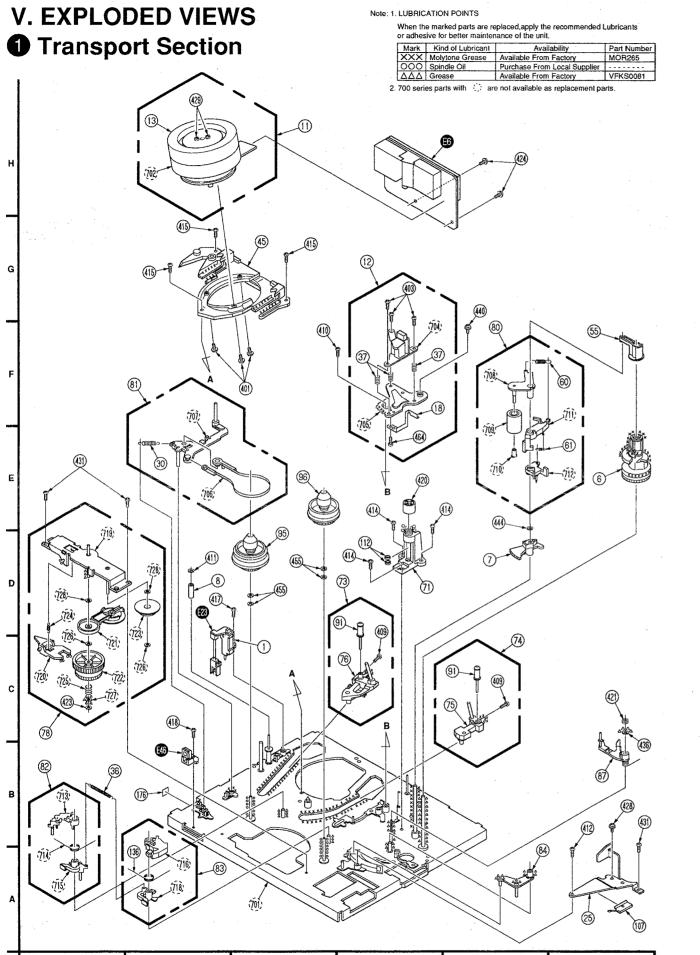
VOLTAGE CHART (SYSTEM CONTROL/SERVO)

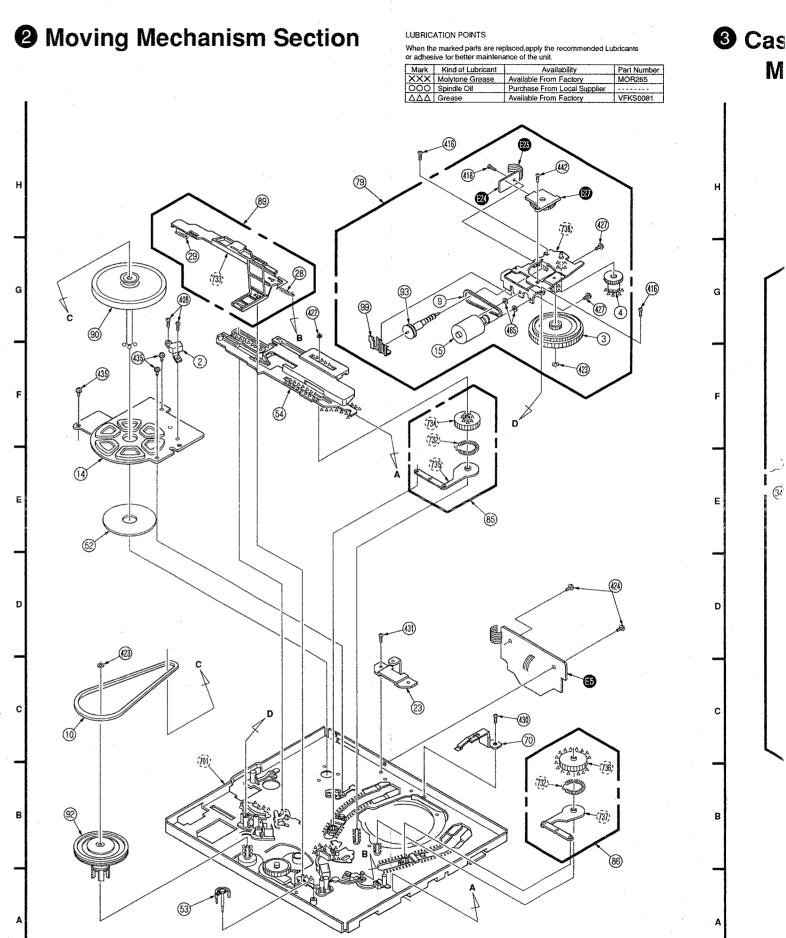
		<u> </u>	•	•••
MODE	STOP	FF	REW	
IN NO.				
IC2501				
1	2.7	4.8	4.8	
2	14.5	14.5	14.5	
3	14.0	14.0	14.0	
4	14.5	14.0	14.0	
5	14.2	14.2	14.2	
6	14.2	17.2	14.2	-
	^ 7	^		
7	0.7	0.7	0.7	
8	0	0	0	
9	0.1	0.7	0.7	
10	0	0.2	0.2	
11	0.5	0.5	0.5	
12				
13	3.1	3.1	31	
14	5.2	5.2	3.1 5.2	
15	1.1	2.5	2.5	
10	1.1	2.3	2.0	
16	2.5	2.5	2.5	
17	2.6	0.1	0.1	
18	1.7	1.7	1.7	
19	1.6 1.6	1.6 1.6	1.6	
20	1.6	1.6	1.6	
21	1.6	1.6	1.6	
22	1.6	1.6	1.6	
23	1.6	1.6	1.6	
24	1.0	1.0	1.0	
	1.6	1.6	1.6	
25				
26	2.7	4.0	5.1	
27	0	0.2	0.2	
28	2.7	4.1	5.1	
IC2502				
1	14.5	13.9	13.9	
2	2.7	4.1	5.1	
3	14.6	14.2	14.2	
4	14.5	14.0	14.0	
5	2.7	4.1	5.1	
6	14.5	14.5	14.5	
7	14.0	14.0	14.0	
8	2.7	4.8	4.8	
IC2601				
1	13.3	13.0	13.0	
2	13.3	13.0	13.0	
3	0.1	0.1	0.1	
4		0.1		
	0.6	0.6	0.6	
5	0	0	0	
6	2.7	2.7	2.7	
7	2.6	2.6	2.6	
8	3.0	9.0	9.0	
9	0.9	0.9	0.9	
10	2.9	2.9	2.9	
11	5.1	5.1	5.1	
12	3.9	3,9	3.9	
		3.9	3.9	
13	3.9			
14	3.9	3.9	3.9	
15	1.2	1.2	1.2	
16	13.3	13.3	13.3	
17	13.3	13.3	13.3	
18	0.1	0.1	0.1	
			7	
	-			

MODE	STOP	FF	REW
PIN NO.			
106001	5.1	5.1	5.1
1 2 3	0.1	0.1	0.1
2	0	0 1.4	0 1.4
4	1.4	1.4	1.4
5	0.3	0.3	0.3
6 7	U.3		0.5
8	0.1	0.1	0.1
0	0.1	0.1	
9	0.1	0.1	0.1
10	0.1	0.1	0.1
10	U. I	0.1	0.1
12	0.1 5.1 5.1	5.1 5.1 0.5	5.1 5.1 0.5
13	0.1	0.1	0.1
14	0.5	0.0	0.0
- 10	0.1	0.1	0.1
11 12 13 14 15 16 17 18 19	0.1	0.1	0.1
1/	4.8	4.8	4.8 5.1 5.1 5.1
10	5.1	5.1 5.1	5.1
20	5.1	5.1	5.1
20	0	0	0
21		0 0	
22 23 24 25 26	2.6	2.6	2.6
23	0.1 2.6 0	0.1	0.1
24	2.0	2.0	2.0
20	2.4	0.1 2.6 2.6 2.4	0.1 2.6 2.6 2.4
	2.6	2.6	2.6
27 28	2.0	2.0	2.0
29		20.00	
30			-
21	1.1	1.1	1.1
31 32	2.0	2.0	2.0
33	0	0	0
34	0	0	0
25	U	U	U
35 36	0.6	0.6	0.6
37	0.0	5.1	5.1
38	1.8	1.8	1.8
39			
40	1.1	2.5 0.1	£ 1
40	2.7 5.0	5.0	2.5 5.1 5.0 0 2.9 2.6 2.6 2.6
41	0.0	0.0	0.0
42	2.9	2.9	20
43	2.6	2.6	2.5
45	2.0	2.0	2.0
45	2.6 2.6 1.2	2.6 2.6 1.2	2.0
40	1.0	1.0	1 2
	0	0	0
48 49	0	0	0
50 E1	2.6	2.6	2.6
21	2.0	2.0	2.0
51 52 53	2.6 2.3 2.8 5.1	2.6 2.5 2.4 5.1	2.6 2.5 2.4 5.1
53	2.8	2.4	2.4
54 55	5.1	5.1	5.1
55	0	0	0
56	0	0	0
57	0	0	0
58	2.6	2.6	2.6
59	2.6	2.6	2.6
60	0	0	0

:HV	\mathbf{O}_{I}		
MODE	STOP	FF	REW
PIN NO.			
61	2.8	2.8	2.8
62	2.6	2.6	2.6
63	5.1	5.1	5.1
64	5.1 2.6 3.9	5.1 2.6 3.9	5.1 2.6 3.9
64 65	2.0	2.0	2.0
00	5.9	5.9	5.9
66 67	5.1	5.1	5.1
6/	5.1	5.1	5.1
68			
69	0.8	0.1	0.1
69 70 71 72 73 74 75 76	0	0	0
71	0	0	0
72	5.1	5.1	5.1
73	5.1	5.1	5.1
7/	5.1	5.1	5.1
75	5.1	J. I	J. I
/3	5.1	5.1	5.1 5.1
/b	5.1 5.1), E, F, G	5.1	5.1
(A, B, C, C)	, E, F, G	5)	
76	0	0	0
(H)	-		
77	0	0	0
78 79	5.1	0.2	0.2
70	5.1	5.1	5.1
10	0.1	5.1	J. I
80 81	0.2	5.1	5.1
81	5.1	0.2	0.2
82			
(A, B, C, E)), E, F, G	;)	
82	2.6	2.6	2.6
(H)			
(A, B, C, E 82 (H) 83			
(A, B, C, L 83 (H) 84 1C6003 1 2 3 4	FFG	;)	
83	5.1	0.1	0.1
/U)	J. 1	V. 1	U. 1
04	0.1	0.1	0.1
100000	U. I	V. I	U. I
100003			
]	0	0	0
2	0	0	0
3 ·	0	0	0
4			
5	0 13.3 0.9	0 13.3 1.3	0
ĥ	13 3	13 3	0 13.3
7	0.0	1 3	1.3
0	0.3	0	0
0	1.2	1.2	1.2
100004	1.2	1.2	1.2
106004			
1	1.3	1.3	1.3
2	0	0	0
3	0	0	0
4			
106201			
1	2.5	2.5	2.5
2	2.5	2.5	2.5 2.5 2.5 0
2	2.5	2.3	2.J
J	2.3	2.3	7.0
4	U	N N	0
5	1.2	2.6	2.6
5 6 7 8 9 1C6004 1 2 3 4 1C6201 1 2 3 4 5 6	2.5 2.5 2.5 0 1.2 1.2	2.6	2.6 2.6 2.4
7	1.1	2.4	2.4
8	5.1	2.5 2.5 2.5 0 2.6 2.6 2.4 5.1	5.1
			
			
	لـــــا	<u>. </u>	

		, <u></u>	
MODE	ST0P	FF	REW
PIN NO.			
06001			
E	0	0	0
C	5.1	5.1	5.1
В			
06002			
E C	0	0	0
	5.1	5.1	5.1
В			
06003			
E	0	0	0
C	10.0	10.0	10.0
В	0.3	0.3	0.3
06004			
E	5.1	5.1	5.1
C	5.1	5.1	5.1
В	4.3	4.3	4.3
06005			
E	0	0	0
E C	0.1	0.1	0.1
В	5.1	5.1	5.1
06006		0.1	011
E	5.1	5.1	5.1
C	0	0	0
В	5.1	5.1	5.1
Q6007	J. 1	J. J. I	J. 1
E1	0	0	0
E2	12.0	12.0	12.0
<u> </u>	12.0	12.0	12.0
C1 C2	12.0	12.0 0.1	12.0 0.1
<u>UZ</u>	0.1	0.1	0.1
B1 B2	12.0	12.0	0 12.0
06201	12.0	12.0	12.0
UbZUI	1.1	0.0	0.0
E	1.1	2.6	2.6
C	1.1	2.6 5.1	2.6 5.1
В	0.5	5.1	5.1
TDCCCO			
TP6001	5.1	5.1	5.1
TP6002	1.8	1.8	1.8
TP6003	0.8	0.1	0.1
TP6004	5.1	5.1	5.1
TP6005	5.1	5.1	5.1
TP6006	4.8	4.8	4.8
TP6007	3.9	3.9	3.9
TP6008	0	0	0
TP6009	5.1	5.1	5.1
TP6011	0	0	0
TP6012			
TP6014	5.1	5.1	5.1
TP6015	5.1	5.1	5.1
TP6016	10.0	10.0	10.0
TP6201	2.6 2.4 2.6 1.2	2.6	2.6 2.4 2.6 1.2
TP6202	2.4	2.4	2.4
TP6203	2.6	2.4 2.6 1.2	2.6
TP6204	1.2	1.2	1.2
TP6205	2.6	2.6	2.6
TP6206	0	0	0
TP6207	2.6	2.6	2.6
TP6208	2.5	2.5	25
TP6209	1.1	2.5 2.5	2.5 2.5 2.6
TP6210	1.2	2.6	2.5
11 02 10	1,4	۷. ۷	۷.۷





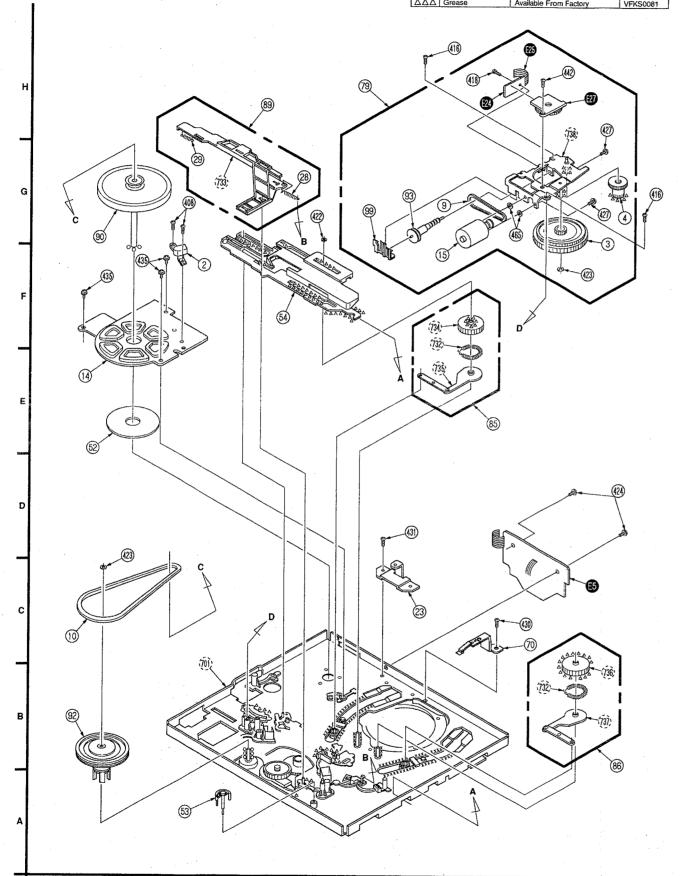
2 Moving Mechanism Section

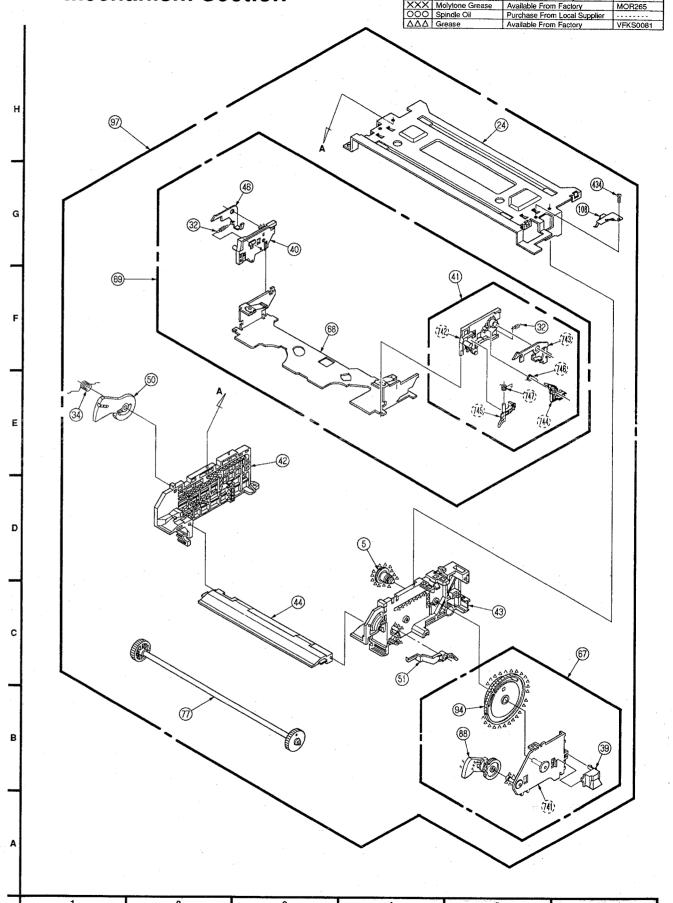
Mark	Kind of Lubricant	Availability	Part Number
	Molytone Grease	Available From Factory	MOR265
000	Spindle Oil	Purchase From Local Supplier	
ΔΔΔ	Grease	Available From Factory	VFKS0081

3 Cassette Up **Mechanism Section**

When the marked parts are replaced apply the recommended Lubr or adhesive for better maintenance of the unit.

Mark	Kind of Lubricant	Availability	Part Number
XXX	Molytone Grease	Available From Factory	MOR265
000	Spindle Oil	Purchase From Local Supplier	
A A A	Croons	Augitable Committee	1451400000

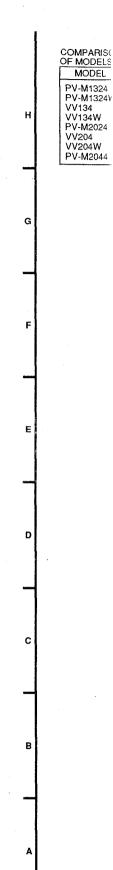




4 Chassis Frame Section

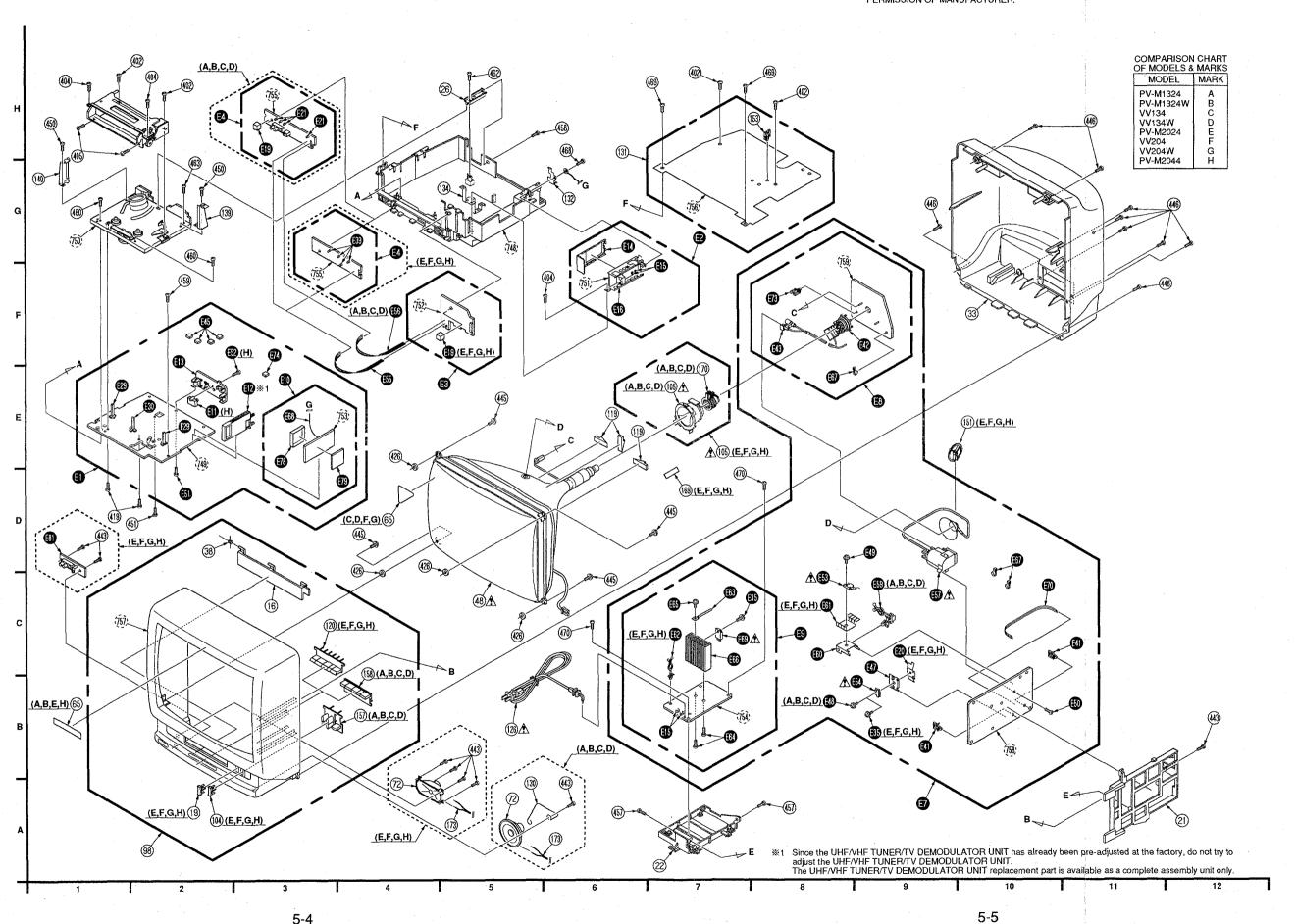
IMPORTANT SAFETY NOTICE:
THERE ARE SPECIAL COMPONENTS USED IN THIS EQUIPMENT WHICH ARE IMPORTANT FOR SAFETY. THESE PARTS ARE MARKED BY IN THE SCHEMATIC DIAGRAMS AND REPLACEMENT PARTS LIST. IT IS ESSENTIAL THAT THESE CRITICAL PARTS SHOULD BE REPLACED WITH MANUFACTURER'S SPECIFIED PARTS TO PREVENT X-RADIATION, SHOCK, FIRE, OR OTHER HAZARDS. DO NOT MODIFY THE ORIGINAL DESIGN WITHOUT PERMISSION OF MANUFACTURER.



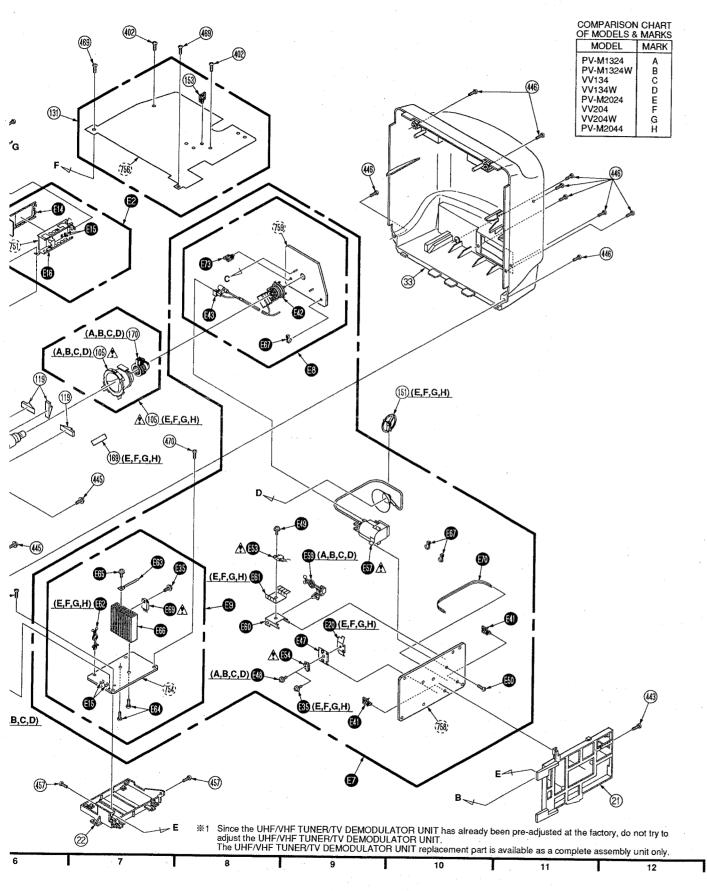


※2 The IR William

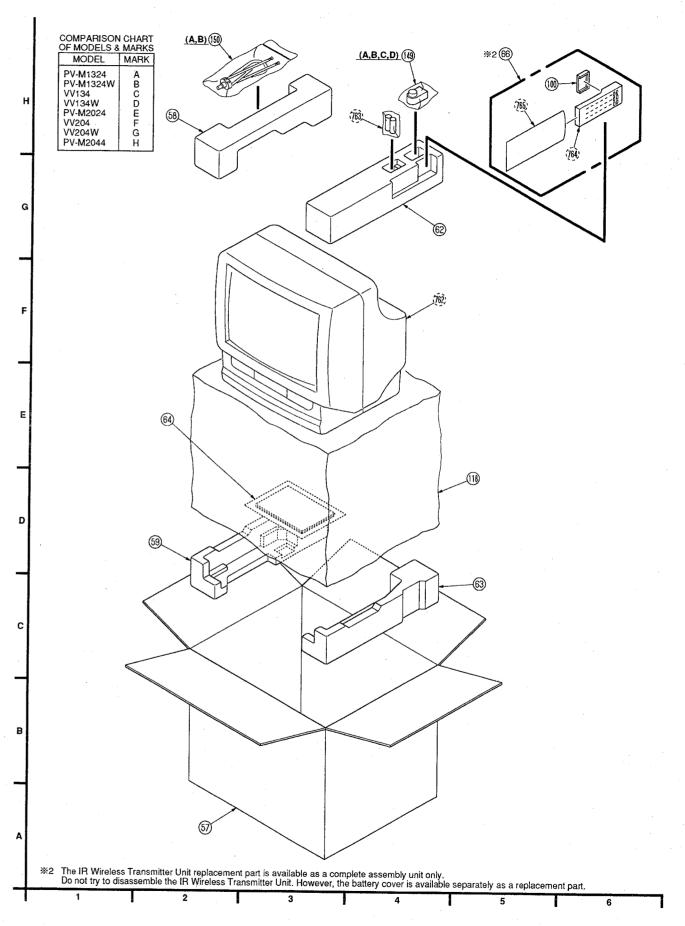
Do not try



IMPORTANT SAFETY NOTICE:
THERE ARE SPECIAL COMPONENTS USED IN THIS EQUIPMENT WHICH ARE IMPORTANT FOR SAFETY. THESE PARTS ARE MARKED BY 1 IN THE SCHEMATIC DIAGRAMS AND REPLACEMENT PARTS LIST. IT IS ESSENTIAL THAT THESE CRITICAL PARTS SHOULD BE REPLACED WITH MANUFACTURER'S SPECIFIED PARTS TO PREVENT X-RADIATION, SHOCK, FIRE, OR OTHER HAZARDS, DO NOT MODIFY THE ORIGINAL DESIGN WITHOUT PERMISSION OF MANUFACTURER.



6 Packing Parts and Accessories Section



5-5

VI. REPLACEMENT PARTS LIST

1. MECHANICAL REPLACEMENT PARTS LIST

USE ONLY ORIGINAL VIDEO REPLACEMENT PARTS: To maintain original FUNCTION and RELIABILITY of repaired units, use only ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in the parts list section of the Service Manual.

- Be Sure to make your orders of replacement parts according to this list.
 IMPORTANT SAFETY NOTICE
- Components identified by the sign Δ have special characteristics important for safety.

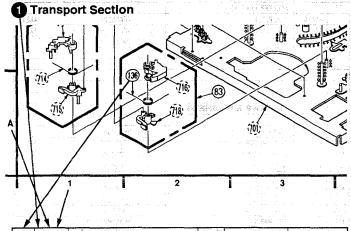
When replacing any of these components, use only the specified parts.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK	MODEL	MARK
PV-M1324	A	PV-M1324W	В	VV134	С
VV134₩	D	PV-M2024	E	VV204	₿F.
VV204W	6	PV-M2044	l H		200

(The complate Exploded Views are shown in this manual.)

V. EXPLODED VIEWS



ltem No.	Grid No.	Description	Pcs/ Set	Part No.	Remark
		34,5000		8X1 #45.5	7. 240
		MECHANISM PARTS OF	CHASSI	S SEE WES	
		75 1285 CV		V135 J. 4972.5	1 1 1
1	1 (C-3)	FE HEAD PROCESS	1 ()	VBSS0026	1.27 31
2	2(F-2)	FG HEAD OLDSONY	1/3	VBKS0024	3 37 59
3	2(G-6)	CAM GEAR	1	VDGS0400	955
4	2(G-6)	LINK GEAR	1	VDGS0289	1
5	3(D-4)	WORM WHEELS YOU	1 :	VDGS0323	7.
6	1 (E~6)	PINCH CAM	1	VDGS0294	1 .7 85
7	1 (D-5)	P5 SECTOR GEAR	1	VDGS0296	3.0
8	1 (D-2)	P1 ROLLER	1	VDPS0210	
97%	2 (G-4)	LOADING MOTOR BELT	1	VDVS0069	2
10	2(C-1)	CAPSTAN BELT	1	VDVS0070	
11		CYLINDER UNIT	.1XV,	SHOWN HOUR WINDS	3
	1 (H-3)	(A, B, C, D, E, F, G)	- 10 1	VEGS0370	1 (1):
	1 (H-3)	(H) 3529856	1	VEGS0372	
12	1 (G-4)	A/C HEAD UNIT	1/2	VEHS0500	1 m2
13		UPPER CYLINDER UNIT	148	i Mada alimai	
	1 (H-2)	(A, B, C, D, E, F, G)	45	VEHS0536	3 5 55
	1 (H-2)	(H) 22 78374	5.4	VEHS0537	
14	2(E-1)	CAPSTAN STATOR UNIT	1	VEMS0237	
15	2(F-4)	LOADING MOTOR UNIT	18 1 F	VEMS0242	12.5
16		CASSETTE DOOR	5.7	C WERDS (APPEND	्री हैं है
	4 (C-3)	(A)	17	TKK779559-2	AKE1
+149	4 (C-3)	(B) 511212	1	TKK779559-1	AKEI
14	4(C-3)	(C) A 1-84°C	1	TKK779559-3	AKEI
	4 (C-3)	(D) 1111 NOVA	1	TKK779559-4	AKE
- 3	4 (C-3)	(F) 1911 0 1	1 1	TKK779557-2	AKE
198	4(C-3)	(G) 1241-32000	190	TKK779557-3	AKE1
		CASSETTE DOOR UNIT	14	1. 19838 341 ⁶⁴³	3 3 788
	4 (C-3)	(E, H) 288822	10	TXFKK01204P	AKE
18	1(F-4)	GROUNDING PLATE	-14	VMBS0962	1 mile
19		VOLUME BUTTON		115 Oct \$0868 3	(4)
1 - 10	4(A-2)	(E. F. H) (C)	1	TBX7786102	AKEI
2.	4(A-2)	(G)	1	TBX7786103	AKE1
21	4(A-12)		1	TMX77403	AKEI
22	4(A-7)	PCB HOLDER -B	1	TMX77404	AKEI
23	2(C-4)	P. C. B. BRACKET		VMAS1 844	

tem No.	Grid No.	Description	Pcs/ Set	Part No.	Remark
24	3(H-5)	TOP PLATEOGRAM	1	VMAS1849	
25	1 (A-6)	OPENER ANGLE	1	VMAS1854	
26	4 (H-5)	CHASSIS ANGLE	1	TUX77803	
28	2(G-3)	ROD RETURN SPRING	1	VMBS0895	1 1 6/4 -
29	2(G-2)	RELEASE PIECE SPRING	1	VMBS0896	
30	1(E-2)	TENSION SPRING	1	VMBS0898	، ایژونی :
32	3(F-5)	SET LEVER SPRING	2	VMBS0901	144.00
JZ	3(G-2)	CORON OF THE		1948 1248 Q44440	
	3(6-2)		100		
33	1/5 10	BACK COVER	126. 3	CAS 803 JA DAC	21 1/2 1 1 1
	4(F-10)	(A,C)	1 1	TKU781501	AKE I
	4(F-10)		1 1	TKU781503	AKE
	4(F-10)	(E, F, H3) (03 (37)	1	TKU781601 0372	AKE
	4(F-10)	(G) 988G3.XY	185.185	TKU781604	AKE
34	3(E-1)	WIPER SPRING -L	1	VMBS0906	4 - 5- 35 5 7
36	1(B-1)	MAIN BRAKE SPRING	1	VMBS0910	45
37	1 (F-4)	ADJUST SPRING	3	VMBS0915	77.44
38	· · ·	CASSETTE DOOR SPRING	1 70		· Person A
	4(D-2)	(A, B, C, D)	1	TES7299	- 11 (1) 12 d
	4(D-2)	(E, F, G, H)	1	TES7612	
20					AKE I
39	3(B-6)	SENSOR COVER	1 -	VMDS0717	9-01
40	3(G-3)	HOLDER GUIDE :-L	1	VMDS0719 45	1-7/5
41	3(F-5)	CASSETTE HOLDER GUIDE R UNIT	1	VXAS1 545	: 144Y) a
42	3(E-3)	SIDE PLATE -L	1 1	VMDS0722	i disabili (
43	3(C-5)	SIDE PLATE -R	1	VMDS0723	(P-V) 1
44	3(C-3)	CASSETTE GUIDE	1	VMDS0724	(J-40, T
45	1 (G-3)	CYLINDER BASE	1	VMDS0925	77 - 100 - 1 - 1
46	3(G-3)	SET LEVER -L	+ ;	VMLS0785	
48	310 07	PICTURE TUBE SUB ASS'Y	+	MCS0765	
40	1/C 5) A		1.4	·	
		(A, B, C, D)	12 12 -	TXFVB02134E	71111
		(E, F, G, H)	1	TXFVB02204E	AKE
50	3(E-2)	WIPER ARM -L	1	VMLS0790	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
51	3(C-4)	CASSETTE LEVER	1	VMLS0960	
52	2(E-1)	SUB PLATE	1	VMAS1470	
53	2(A-2)	CASSETTE DOWN DETECT PIECE	1	VMMS0077	Str. Sylv
54	2(F-3)	MAIN ROD	1	VMMS0078	
55	1(F-6)	PINCH CAM CAP	 	VMXS0782	
57	/	PACKING CASE	1	<u> </u>	
72.	5(A-2)	(A.) 40. (0726)	1	TPC7810408	AKEI
- 1	5(A-2)	- C 5 N 200 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+-;	1101010400	
. 57.				TPC7810409	AKE
	5(A-2)	(Cd) #1247 APA 1	1	TPC7810410	AKE I
	5(A-2)	(D) TASKRACU	1	TPC7810411	AKE
	5(A-2)	(E)	1	TPC7841622	AKE
	5(A-2)	(F) (10)200	1	TPC7841624	(delit) AKE1
	5(A-2)	((G) 40116787 (.	1	TPC7841625	AKE
	5(A-2)	(H)	1	TPC7841623	AKE
58		LEFT CUSHION -TOP		7 3 3 3	0-44
134	5 (H-2)	(A, B, C, D)	1	TPD971032	AKE I
	5(H-2)	(E, F, G, H)	 i	TPD971036	AKEI
EQ.	3(n-2)		+	<u> </u>	
59	5 (D. 0)	LEFT CUSHION -BOTTOM	+		<u> </u>
7.64	0 (0 -)	(A, B, C, D)	1		AKE
. 5/4	5 (D-2)	(E, F, G, H)	1		AKE I
	1 (F-6)	PRESSURE ROLLER SPRING	1		ás <u> </u>
61	1 (E-6)	PRESSURE ROLLER ARM SPRING	1	VMBS0590 30 000	3-35
62		RIGHT CUSHION -TOP		PALE PARKET	19-50 8
	5(G-4)	(A, B, C, D:) (X)	1	TPD971031	AKE
	5(G-4)	(E,F,G,H)	 	TPD971035	AKE
63	,	RIGHT CUSHION -BOTTOM	+	(8,6 C,6)	7 T
. :3,	5 (C-5)	(A, B, C, D 4)	+-	TPD972031	
					- AKEI
	5 (C-5)	(E, F, G, H)	100	TPD972035	(0-3) AKEI
64		FAN BAG	 	OFFRATION BUTTON	* **
- 17	5(E-2)	(A, B) 38 10 10 1	1	V0FS3003	AKE
1.0	5 (E-2)	(C, D) (15 T K) * .	1	V0FS3007	AKE
1,83	5(E-2)	(E, H 🕽 💯 💯	1	VQFS3004	AKE
434,	5(E-2)	(F,G)	1	VQFS3008	AKE
65		STICKER	Ť	GROD DIA	1 9
	4 (B-2)	(A, B) (1188)	1		A (6-3))
- (5)		(C, D)			
	4 (D-4)		1		AKE!
	4 (B-2)	(E, H) 46 80	1 1		Δ.
730	4 (D-4)	(F,G)	1		&(₹\&)E AKE I
66		IR WIRELESS TRANSMITTER UNIT		041 MAS RESERVED	
	5 (H-5)	(A.E)	1	VS0S1370	8.218
	5 (H-5)	(B)	132	VSQS1372 #8 %	1 :
jā.	5 (H-5)	(C, D, F, G)	1 1	VSQS1373 .8 A	(ji=1) \ I.
174	5 (H-5)	(H)x3c actors	1	VS0S1371	3.40
67	3(C-6)	SUB PLATE ASS'Y	1,50.4	VXAS1531	
~1	0 (0 -0)	SUB-FLATE ASSIST			
			-	T. N. LITER J. LAND.	
		71. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9 : 01	

			10 (
item No.	Grid No.	Description	Pcs/ Set	Part No.	Remark
68	3(F-3)	CASSETTE HOLDER UNIT	1	VXAS1532	
69	3(F-1)	CASSETTE HOLDER ASS'Y	1	VXAS1534	·· .
70	2(C-5)	EARTH PLATE UNIT	1	VXBS0042	
71	1 (D-4)	CAPSTAN HOLDER UNIT	1	VXDS0128	
72	1(1.5)	SPEAKER	 	Henetage	
	4(A-5)	(A, B, C, D)	1	USP65306 EASG9D540A2	
73	4(A-4) 1(D-4)	(E, F, G, H) LOADING POST S ASS'Y	1	VXDS0129	
74	1 (C-5)	LOADING POST T ASS'Y	1	VXDS0123	
75	1 (C-5)	LOADING POST BASE T UNIT	1	VXDS0133	
76	1 (C-4)	LOADING POST BASE S UNIT	1 1	VXDS0134	
77	3(B-2)	MAIN SHAFT UNIT	1	VXJS0052	
78	1 (C-1)	CENTER BLOCK UNIT	1	VXKS0674	
79 ·	2(H-4)	MOTOR BLOCK ASS'Y	1	VXKS0755	
80	1 (F-5)	PRESSURE ROLLER ARM UNIT	1	VXLS0836	
81	1 (F-2)	TENSION ARM UNIT	1	VXLS0838	
82	1 (B-1)	BRAKE S UNIT	1	VXLS0843	
83	1 (A-2)	BRAKE T UNIT	1	VXLS0846	·
84	1 (A-5)	CAM FOLLOWER ARM UNIT	1 1	VXLS0848	· · · · · · · · · · · · · · · · · · ·
85	2(E-5)	LOADING ARM T UNIT	1	VXLS0850	
86	2(B-6)	LOADING ARM S UNIT	1 !	VXLS0852	
87	1 (B-6)	P5 ARM UNIT	1-1-	VXLS0853 VXLS0856	
88	3(B-5)	WIPER ARM R UNIT SECONDARY ROD UNIT	1 1	VXLS0856 VXLS0917	
89 90	2 (H-3) 2 (G-1)	CAPSTAN ROTOR UNIT	+ +	VXPS0301	
91	1 (C-5)	ROLLER POST UNIT	2	VXPS0302	
91	1 (D-4)	HOLLEN 1001 ONT	 		
92	2(B-1)	CLUTCH UNIT	1	VXPS0303	
93	2(G-4)	WORM UNIT	1	VXPS0309	
94	3(B-5)	GENEVA GEAR UNIT	1	VXPS0310	
95	1 (D-3)	SUPPLY REEL TABLE UNIT	1	VXRS0061	
96	1 (E-3)	TAKEUP REEL TABLE UNIT	1	VXRS0062	
97	3(H-1)	CASSETTE UP ASS'Y	1	VXYS0894	
98		CABINET ASS'Y			
	4 (A-2)	(A)	1	TXFKY01134EP	AKE I
	4 (A-2)	(B)	1	TXFKY1134EPW	AKEI
	4 (A-2)	(C)	1	TXFKY01134EQ	AKEI
	4 (A-2)	(D)	1_1_	TXFKY1134EOW	AKEI
<u></u>	4(A-2)	(E)	1 1	TXFKY01204EP	AKEI
	4 (A-2)	(F)	1	TXFKY01204E0	AKEI
	4(A-2)	(G)	1	TXFKY1204EQW	AKEI
<u> </u>	4 (A-2)	(H) WORM SHAFT SUPPORT	1 1	TXFKY1204EGP VDBS0247	AKE I
99 100	2(G-4)	BATTERY COVER	1 '	YUD30247	
100	5 (H-5)	(A, C, D, E, F, G, H)	1	VKFS1073	
	5 (H-5)	(B)	Τi	VKFS1104	
104	0 (11 0)	CHANNEL BUTTON	† ·	11.01101	
104	4(A-2)	(E, F, H)	1	TBX7786002	AKE1
	4(A-2)	(G)	1	TBX7786003	AKE
105	101 -7	DEFLECTION YOKE			
 	4(E-7) ∆	(A, B, C, D)	1	TLY26389F	AKE!
	Δ	·		OR TLY26389S	AKE !
		(E, F, G, H)	1	TLY26351F1	AKEI
	Δ		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	OR TLY26390S	AKEI
107	1 (A-6)	GROUNDING SPRING	1	VMBS0959	
108	3 (G-6)	GROUNDING PLATE	1 1	VMCS0061	
112	1 (D-4)	DUST SEAL	2	VMXS0511	
118	F (2) = 1	POLYETHYLENE BAG	 	TDE744021	AKEI
 	5 (D-5)	(A, B, C, D)	1 1	TPE744031	AKE I
110	5 (D-5)	(E, F, G, H) DY ADJUSTMENT RUBBER	3	TPE744035 TMM77531	ANEI
119	4 (E-6)	OPERATION BUTTON	+	CHIEC / JUL	
120	4 (C-3)	(E)	1	TBX7786301	. AKE I
 	4(C-3)	(F)	1	TBX7786303	AKEI
 	4 (C-3)	(G)	 	TBX7786304	AKEI
	4(C-3)	(H)	$+\dot{\tau}$	TBX7786302	AKEI
126	1.00	A/C CORD	† ·		
-	4 (B-5) A	(A, C, D, E, F, G, H)	1	TSX7134	
	Δ	·		OR TSX7134-F	AKE I
	Δ			OR TSX7134-K	
	4 (B-5) ∆	(B)	1	TSX7145	AKEI
130		SPEAKER SPRING			
	4 (A-5)	(A, B, C, D)	1	TES7368-1	
131		TOP SHIELD PLATE ASS'Y			
	4 (H-6)	(A, B, C, D)	1	TXFUC01134	AKE I
	4 (H-6)	(E, F, G, H)	1	TXFUC01204	AKE I
132	4 (G-6)	POWER SUPPLY ASS'Y ANGLE	1	TUX77807	AKEI
134	4 (G-5)	POWER EARTH PLATE	1	TUX77808	
	1 (A-2)	SOFT SPRING -T	1	VMBS0912	
136	4 (G-2)	SUPPORT ANGLE -R	1 1	VMAS2057	

Item No.	Grid No.	Description	Pcs/ Set	Part No.	Remark
140	4 (G-1)	SUPPORT ANGLE -L	1	VMAS2041	
149		VHF ANTENNA ADAPTOR			
	5 (H-4)	(A, B, C, D)	1	VSQS0974	
150	5 (1) (2)	VHF ROD ANTENNA		T0170000	avet.
151	5 (H-2)	(A, B) ANODE LEAD CLAMPER	1	TSA700009	AKEI
131	4 (E-10)	(E,F,G,H)	1	TMM15404-1	AKEI
153	4 (H-8)	CLAMPER	1	TMM7443-1	
157		OPERATION BUTTON (1)			
	4 (B-4)	(A)	1	TBX7785802	AKEI
	4 (B-4)	(B, D)	1	TBX7785804	AKEI
	4 (B-4)	(C)	. 1	TBX7785805	AKEI
158	4 (B-4)	OPERATION BUTTON (2)	1	TBX7785901	AKEI
	4(B-4)	(B,D)	1	TBX7785902	AKEI
	4 (B-4)	(0)	1	TBX7785903	AKEI
169		PERMALLOY MAGNETIC STRIP			
	4(D-7)	(E, F, G, H)	1	TSM10032-2	AKEI
170		CONVERGENCE MAGNET			
	4(E-7)	(A, B, C, D)	1	TLC2042-2	s 1
173	4/4 6)	SPEAKER LEAD ASS'Y	<u> </u>	VENCEUUZ	AVEL
	4(A-6) 4(A-5)	(A, B, C, D) (E, F, G, H)	1	VEKS5227 VEKS5228	AKE I
176	1 (B-2)	SHEET	+	VMFS0064	ANLI
	- \/		- -		
	ļ		ļ		
	 	SCREWS & WASHERS			
		SCHEWS & WASHERS			
401	1	SCREW WITH WASHER	3	VHDS0356	
402	4	TAPPING SCREW 3X8	4	XTV3+8FR	AKEI
403	i	ADJUST SCREW	3	VHDS0398	
404	4	SCREW 3X10	3	VHDS0286	· · · · · · · · · · · · · · · · · · ·
405	4	SCREW	2	VHDS0399	
408	2	SCREW 2.6X10	2	VHDS0402	
409	1	LOCK SCREW	2	VHDS0236	
410	1	SCREW 2.6X6	1	VHDS0403	
411	1	CUT WASHER SCREW 2X8	1 1	VMXS0664 ** XYM2+S8	
414	1	SCREW 2.6X5	3	XSN26+5	
415	1	SCREW 3X6	3	XSN3+6	
416	2	TAPPING SCREW 2.6X10	2	XTN26+10G	
417	1	SCREW 2.6X12	1	XTN26+12G	
418	1,2	TAPPING SCREW 2X5	2	XTV2+5F	
419	4	TAPPING SCREW 2,6X8	2	VHDS0464	
420	1	THRUST SCREW UNIT	1	VXDS0031	
421 422	2	M3 NUT POLY SLIDER WASHER 2	1	VHNS0015 XWGV2D5G	
423	1, 2	CUT WASHER	3	VMXS0336 **	
424	1, 2	SCREW WITH WASHER 2.6X6	4	XYC26+CF6J	
426	T	RUBBER WASHER	ΙĖ		
	4	(A, B, C, D)	4	TMM16517	AKEI
	4	(E, F, G, H)	4	TMM77532	AKEI
427	2	SCREW WITH WASHER 3X4	2	XYN3+C4	
428	1	SCREW WITH WASHER 2.6X10	1	XYA26+SF10J	<u> </u>
429 430	2	SCREW 2.6X7.5 TAPPING SCREW 2.6X6	1	VHDS0423 XTV26+6FFZJ	
430	1,2	TAPPING SCREW 2.6X6	4	XTV26+6FJ	
434	3	TAPPING SCREW 2.6X8	1	XTB26+8G	
435	2	TAPPING SCREW WITH WASHER	3	XYEV0004J	
436	1	POLY WASHER	1	XWE3VW	
440	1	SCREW WITH WASHER 2.6X6	1	XYN26+F6FZ	
442	2	TAPPING SCREW 2X5	1	XTV2+5GFZ	
443	<u> </u>	TAPPING SCREW 4X12		VTV4 - 124	I IVE
	4	(A, B, C, D) (E, F, G, H)	7	XTV4+12A XTV4+12A	AKE I
444	1	CUT WASHER	1	VMXS0722 **	ANEI
445	4	SCREW WITH WASHER 5X30	4	THT1056	AKEI
446	4	TAPPING SCREW 4X16	9	XTV4+16A	AKEI
450	4	TAPPING SCREW 3X6	2	XTV3+6F	
451	4	TAPPING SCREW 2.6X8	1	VHDS0465	AKEI
455	1	POLY SLIDER WASHER 3	4	XWGV3Z54G	
457	-	TAPPING SCREW 3X12	<u> </u>	141D00445	LUE:
	4	(A, B, C, D) (E, F, G, H)	2	VHDS0445 XTV3+12GR	AKE1
	"	(C, F, U, R)	 	AIVOTIZUK	AKEI
			 	ļ	
	1				ł.

400

Item									
	Grid		Description	n .	Pcs		art No.	Re	emark
No.	No.	T. D. L. D.	005W 0V0		Se1		2.05	<u> </u>	
458	4	TAPPING S	CREW 3X8				3+8F	├──	
159	4	SCREW			1		3+FG10FR	<u> </u>	
160	4		CREW 4X12		2		4+12A 👙 😘	11.00	
62	4	SCREW 4X	15		1		4+15AR	}	
63	4	SCREW			54 867 1	VHD	S0416	1 .	1
64	1	TAPPING S	CREW 1.6X3	3	1	XQN	16+CF3		
65	2	POLY SLID	ER WASHER	: -	2	XWG	V26A5	'A\	
68	4	TAPPING S	CREW 4X10		1	XTV	4+10AFN		AKEI
69	4		CREW 3X10		2	VHD	\$0444	<u> </u>	AKEI
70	4	TAPPING S			7		3+10G	 	AKEI
70	-	IAIT INO C	ONLH DATO	(6.7)	9 G 41 M			756	
		 			7	-		 	
	 			Color ora	Se . 25 6 5 6 5			-	
					7 4 4 4 4 A 4 4 4		A Wiles		F14
			-11's 3 - s	14 yr			24 (42)	-	
		-			100			 	
		SERVIC	ING FIXT	UHES	& TOOL	8	<u> </u>	-	1977
	l				31 31			<u> </u>	
		VHS ALIGN	MENT TAPE		1 (44.)2	VFV	S0001 H6		
		H-POSITIO	N ADJ. SCRI	EWDRIVER	₹ T. 1 1 1 1	VFK	S0080		\$150
	 	POST ADJ.	SCREWDRIV	ER		VFK	0329	Ţ	
_			PLATE		27 1784	VFK	S0010	1	1516
-	l		E HEIGHT F				S0009	T	5 6.5%
	 		NING STICK		3 2 2 2		27	t-	
	 				57479		265	 	
	 	MOLYTONE						├	
			W WRENCH				S0032	├	- 1 8°
	<u> </u>		74.40 Te		taga te gara		S0081	-	-255
			MAGNETIC			TSN	10032-2	ļ	
		194 1	19 July 19	14 14	en ex		11-97	<u> </u>	561
			1.0.0000		70		4 74		4,451
								1	
					1,500,500			Ť-	
		 				_	**	1,2	
						_		 	
	 -	 				+		<u> </u>	
	 						1.4 1.64		24 , 5 %
		ļ						+	
	 							+	
								 	
								1	a134
							4.55	1	
							125 - 3800	L	- 97.05
							+1947/-		748
								1:	
					8.0		100 490 01	:	6,24
	1	1					27 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		. (776)
	1	1			100		70) 016800	T =	
	 	 					12.000000		
	 				그렇다 내 그리	201.14	755 435 £3		197767 084 - E. C.
		1					75,3843 115,861	-	11.5 TW
_	 	ļ		261 Y	(90), 400	3-1	753(1)		n i dak
_	<u> </u>					3-1			13 NE 11 11 14 K 14 4 K
					(90), 400	3-1	19.36.10 1. Peri 19.344.63		20 10 20 20 20 20 20 20 20 20
					(90), 400	3-1	1138 (16) 1892 1892 1893 1893		10000 10000 10000 10000
				280 W		(\$2.7 2.7)	15 861 1 1995 10 24 25 10 14 14 4 4 4		100 100 100 100 100 100 100 100 100 100
			28 14 14 Pa		1973, 1973 14 14 17 18 18 18 18 18	18-7 	1138 (16) 1892 1893 1893 1893		10000 10000 10000 10000
			140 jac.	280 W	1973, 1973 14 14 17 18 18 18 18 18	(\$2.7 2.7)	15,000 (1) - 1,000 - 20,000 (1) - 1,000 (1) - 1,000 (1) - 1,000 (1)		0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			M 14 14 17 1	280 W	1973, 1973 14 14 17 18 18 18 18 18	18-7 	15 861 1 1995 10 24 25 10 14 14 4 4 4		10 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			평리 <u>1</u> 40.	280 W	1973, 1973 14 14 17 18 18 18 18 18		15,000 (1) - 1,000 - 20,000 (1) - 1,000 (1) - 1,000 (1) - 1,000 (1)		10 0 10 0 10 10 10 10 10 10 10 10 10 10
			भूत्य अस्ति	280 W	(1970) (1970) (A) (A) (A) (A) (A) (A) (A)		10 86 10 1 1 1 10 10 10 1 1 10 10 10 1 1 10 10 1 1 10 10 1 10 10 10 1 10 10 10		10 (2) 10 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
			भूत्य भूकें:	280 W	(1970) (1970) (A) (A) (A) (A) (A) (A) (A)		1,35 (1 2,000 (2) 2,000 (2) 2,000 (2) 2,000 (2) 2,000 (2) 2,000 (2)		3 10 0 446 0 446 0 60 0 60 0 70 0 0 60 0 0 60 0 70 0 70
			Mark 1980;	280 W	(1970) (1970) (A) (A) (A) (A) (A) (A) (A)		1,35 (1 2,000 (2) 2,000 (2) 2,000 (2) 2,000 (2) 2,000 (2) 2,000 (2)		3 10 0 446 0 446 0 60 0 60 0 70 0 0 60 0 0 60 0 70 0 70
				21: 10 Mark 10	200 June	184 144	1 2 3 (1) (1) (1) (1) (1) (1) (1) (3 10 0 446 0 446 0 60 0 60 0 70 0 0 60 0 0 60 0 70 0 70
1+0			EM NUMBE	AS OF I	PARTS NO	SO S	1 2 3 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		100 Miles
Item		ng Item	EM NUMBE	RS OF I	PARTS NO Drawing	DT SUP	Drawing	Item	00 / 00 / 00 / 00 / 00 / 00 / 00 / 00
No.	No.	ng Item No.	EM NUMBE Drawing No.	RS OF I	PARTS NO.	DT SUPI	PLIED Drawing No.	I tem	Drawing No.
No. 701	No.	ng Item No. 702	EM NUMBE Drawing No.	RS OF I	PARTS NO. Drawing No.	DT SUPI	PLIED Drawing No. 1	Item No.	0.000 (0.
No. 701 707	No. 1, 2	ng Item No. 702 708	EM NUMBE Drawing No. I	RS OF F Item No. 704 709	PARTS NG Drawing No.	DT SUPI Item No. -705	PLIED Drawing No. 51	I tem No. 706	1000 0000
No. 701 707 712	No. 1, 2 1	ng Item No. 702 708 713	EM NUMBE Drawing No. 1 1	RS OF F I tem No. 704 709 714	PARTS No. 1	> T SUPI Item No. -705 710 715	PLIED Drawing No. 1	I tem No. 706 711	Drawing No.
No. 701 707 712 718	No. 1, 2	ng Item No. 702 708	EM NUMBE Drawing No. I	RS OF I I tem No. 704 709 714 720	PARTS NG Drawing No.	T SUPINO 10 10 10 10 10 10 10 10 10 10 10 10 10		I tem No. 706 711 716 722	100 100
No. 701 707 712	No. 1, 2	ng Item No. 702 708 713	EM NUMBE Drawing No. 1 1	RS OF F I tem No. 704 709 714	PARTS No. 1	> T SUPI Item No. -705 710 715	PLIED Drawing No. 1	I tem No. 706 711	Drawing No. 1
No. 701 707 712 718	No. 1, 2 1 1 1 1 1	ng Item No. 702 708 713 719	EM NUMBE Drawing No. 1 1 1	RS OF I I tem No. 704 709 714 720	PARTS NO Drawing No.	T SUPINO 10 10 10 10 10 10 10 10 10 10 10 10 10		I tem No. 706 711 716 722	Drawing No. 1
No. 701 707 712 718 723 728	No. 1, 2 1 1 1 1 1 1	ng Item No. 702 708 713 719 724	EM NUMBE Drawing No. 1 1 1 1 2	RS OF I I tem No. 704 709 714 720 725	PARTS NO. 1 1 1 1	Item No. 705 710 715 721 726	PLIED Drawing No. 1 di	71tem No. 4706 7111 716 722	Drawing No. 1
No. 701 707 712 718 723 728 736	No. 1, 2 1 1 1 1 1 2	ng item No. 702 708 713 719 724 732 737	Drawing No. I I I I I I I I I I I I I I I I I I I	RS OF I Item No. 704 709 714 720 725 733 738	PARTS No. 1 1 1 2 2	DT SUPI 1 tem No. 705 710 715 721 726 734 741	PUED Drawing No. 1 1 2 1 1 2 2 2 3 3 4 1 1 2 2 4 3 3 4 1 1 1 2 2 4 3 3 4 1 1 1 2 2 4 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 tem No. 3 706 : 711. 716 722 727 735 742	Drawing No. 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
No. 701 707 712 718 723 728 736 743	No. 1, 2 1 1 1 1 1 2 3	ng item No. 702 708 713 719 724 732 737	EM NUMBE Drawing No. 1 1 1 1 2 2 3	RS OF F I tem No. 704 709 714 720 725 733 738 745	PARTS No. 1 1 1 1 2 2 3	DT SUPI I tem No. -705 -710 -715 -726 -734 -741 -746	PUED Drawing No. 1 1 2 4 2 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	71tem No. 3 706 3 711 716 722 727 735 742 747	Drawing No. 1 1 2 2 3 3 3
No. 701 707 712 718 723 728 736 743 748	No. 1, 2 1 1 1 1 2 2 3 4 4	ng Item No. 702 708 713 719 724 732 737 744 749	EM NUMBE Drawing No. 1 1 1 2 2 3 4	RS OF I I tem No. 704 709 714 720 725 733 745 750	PARTS NO. 1 1 1 2 2 3 4	705 Telephone	PLIED 1 - 2 - 1 - 2 - 3 - 3 - 3 - 4 - 4	711en No. 706	Drawing No. 1 1 2 3 4 4 4 5 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4
No. 701 707 712 718 723 728 736 743	No. 1, 2 1 1 1 1 1 2 3 3 4 4 4	ng item No. 702 708 713 719 724 732 737	EM NUMBE Drawing No. 1 1 1 1 2 2 3	RS OF F I tem No. 704 709 714 720 725 733 738 745	PARTS No. 1 1 1 1 2 2 3	DT SUPI I tem No. -705 -710 -715 -726 -734 -741 -746	PUED Drawing No. 1 1 2 4 2 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	71tem No. 3 706 3 711 716 722 727 735 742 747	Drawing No. 1 1 2 2 3 3 3

UNUSED ITEM NUMBERS

17, 20, 27, 31, 35, 47, 49, 56, 101, 102, 103, 106, 109, 110, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124, 125, 127, 128, 129, 133, 135, 137, 138, 141, 142, 143, 144, 145, 146, 147, 148, 152, 154, 155, 156, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 171, 172, 174, 175, 406, 407, 413, 425, 432, 433, 437,

438, 439, 441, 447, 448, 449, 452, 453, 454, 456, 461, 466, 467

765

6-3

- 1, 19V lbg

Service and the

2. ELECTRICAL REPLACEMENT PARTS LIST

USE ONLY ORIGINAL VIDEO REPLACEMENT PARTS: To maintain original FUNCTION and RELIABILITY of repaired units, use only ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in the parts list section of the Service Manual.

Special Note:
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "Electrostatically Sensitive (ES) Devices" section of this service manual.

electrostatically sensitive and therefore require the special handling techniques described under the "Electrostatically Sensitive (ES) Devices" section of this service manual.

Note:

1. Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE Components identified by the sign Δ have special characteristics important for safety.

When replacing any of these components, use only the specified parts.

3. Unless otherwise specified;

All resistors are in OHMS(Ω), ¼W, ±5%, carbon, K=1,000 Ω, M=1,000K Ω.

All capacitors are in MICROFARADS(μF), P=μμf, ±10%.

All coils are in MICROHENRIES(μH), M=10³ μH, ±10%.

4. C.B.A.: Circuit Board.

5. P.C.B.: Printed Circuit Board.

6. E.S.D.: Electrostatically Sensitive Devices.

7. ITEM NUMBERS WITH CAPITAL LETTER E Item numbers with capital letter (Example: E1,E2,···) in the Ref. No. column are shown in the exploded views.

The Eitem numbers are also printed on the same page at the top of the column.

8. The parts with "Δ" are assembly parts or units.

The parts with "Δ" are assembly parts or units.

The parts with "Δ" are assembly parts or units which belong to parts with "Δ" are assembly parts or units.

The parts with "Δ" are assembly parts or units.

The parts with "Δ" are assembly parts or units.

The parts with "Δ" are assembly parts or units.

Refer to IC, Transistor and Chip Part Information page.

10. List of Abbreviations for Part Names & Descriptions:

CHIP: CERAMIC CHIP CARTS

When servicing chip parts, please use a soldering iron of less than 30 watts.

Refer to IC, Transistor and Chip Part Information page.

10. List of Abbreviations for Part Names & Descriptions:

CHIP: CERAMIC CHIP COMPLEX COMPONENT

W FLMPRF: WIREWOUND FLAMEPROOF

11. The parts with "" are 0 OHM resistor. When replacing, a wire can be substituted for a 0 OHM resistor.

12. Parts different in shape or size may be used.

However, only interchangeable parts will be supplied as service replacement parts.

COMPARISON CHART OF MODELS & MARKS

1	MODEL	MARK	MODEL	MARK	MODEL	MARK
Γ	PV-M1324	A	PV-M1324W	В	VV134	С
	VV134₩	D	PV-M2024	Ε	VV204	F
	VV204\	G	PV-M2044	Н		

(E1, E2, E3, E4, E5, E6, E7, E10, E81)

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
	+		PRINTED CIRCUIT BOARD AS:	SEMB	LY
E1		VEPS02223A1	MAIN C. B. A.	1	E. S. D. (RTL)
	+=	(A, B, C, D)			
F1		VEPS02223B1	MAIN C. B. A.	 	E. S. D. (RTL)
	╪	(E. F. G)		 	
E1		VEPS02223C1	MAIN C. B. A.		E. S. D. (RTL)
	┰	(H)		1	, , ,
E10	A	VEPS03125C2	CCV C, B, A.	1	E. S. D. (RTL)
E2	1	VEPS01039A1	POWER SUPPLY ASS'Y	1	(RTL)
E3		VEPS07571A1	OPERATION I C. B. A.	1	(RTL)
	1	(A, B, C, D)	·		
E3		VEPS07573A1	OPERATION I C.B.A.		(RTL)
		(E, F, G, H)			
E4	劃	VEPS07572A1	OPERATION II C. B. A.	1	(RTL)
		(A, B, C, D)			
E4		VEPS07574A1	OPERATION II C.B.A.		(RTL)
	Т	(E, F, G, H)			
E81	-	VEPS04117A1	AUD10/VIDEO JACK C. B. A.	1	(RTL)
		(E, F, G, H)			
E5	严	VEPS02178A1	CAPSTAN MOTOR DRIVE C. B. A.	1	(RTL)
E6		VEPS0563CA1	HEAD AMP ASS'Y	1	(RTL)
		(A, B, C, D, E, F, G)			
E6		VEPS0564CA1	HEAD AMP ASS'Y		(RTL)
		(H)		<u> </u>	
E7		TNP71920CC	TV MAIN C. B. A.	1	(RTL) AKE I
		(A, B, C, D)			
E7		TNP71922CC	TV MAIN C. B. A.	ļ	(RTL) AKE I
		(E, F, G, H)			

(E8, E9, E29, E30)

Part No.

Ref. No.

Ref. No.		Part No.	Part Name & Description	Set	Remarks
E8	A	TNP73135AA	CRT C. B. A.	1	(RTL) AKEI
		(A, B, C, D)			
E8	•	TNP73139AA	CRT C. B. A.		(RTL) AKE I
	Ц	(E, F, G, H)			
E9	▲	TNP73136BB	TV POWER C. B. A.	1	(RTL)AKEI
	니	(A, B, C, D)	TU DOWER O S		/am.
E9	A	TNP73140BB	TV POWER C. B. A.		(RTL) AKEI
	Н	(E, F, G, H)			
	H			ļ	ļ
			MAIN C.B.A.		
	-		MARY C.B.A.		
	-		INTEGRATED CIRCUITS		
IC3001		AN3458FBP	IC BIPOLAR LINEAR VIDEO/AUDIO	1	
100001		1110-1001 0.	PROCESS		
IC3201		MN3870S	IC MOS LOGIC CCD 1H DELAY	1	E. S. D.
IC3301		LC7472NM9056	IC MOS LOGIC CHARACTER	1	E. S. D.
			GENERATOR		
IC4151		AN5265	IC BIPOLAR LINEAR TV SOUND	1	
			OUT		
IC6001		MN6750245V5Y	IC MOS LOGIC SYSTEM CTL/SERVO	1	E. S. D.
IC6003		XRA6418N	IC BIPOLAR LINEAR LOADING	1	
			MOTOR DRIVE		
IC6004		VEKS5202	REEL SENSOR UNIT	1	
IC6201	_	AN1358S	IC BIPOLAR LINEAR OP AMP	1	
IC7501	4	MN187244V9G	IC MOS LOGIC TIMER/DISPLAY	1	E. S. D.
107500	4	M11200 '	DRIVE	<u> </u>	<u> </u>
107502	4	MN1280-L	IC MOS LOGIC RESET SIGNAL OUT		E. S. D.
IC7505	\dashv	UPD6326C	IC MOS LOGIC D/A CONVERTER	1	E. S. D.
	4				
	\dashv		TRANSISTORS		
01201	$\overline{\mathbf{A}}$	2SC3852	,,,mituri VIII	1	
		OR 2SD1776(P, Q)			
	-	OR 2SD2375 (P, Q)			
01202		2SD601 (0)	CHIP	1	
03001, 3002		2SD601 (R)	CHIP	2	
03003	\neg	2SB709(R)	CHIP	1	
		(A, B, C, D, E, F, G)			
03004		UN2113	CHIP	1	
03005		2SB709 (R)	CHIP	1	
03301		2SD601 (R)	CHIP	1	
03601	_	2SB709 (R)	CHIP	1	
		(H)			
Q4001	_	2SB709A(Q)	CHIP	1_	
04002, 4003	_	2SD601A(R)	CHIP	2	· · · · · · · · · · · · · · · · · · ·
04101	_	2SD601 (Q)	CHIP		
06001 (E29)	_	VEKS5200	PHOTO SENSOR UNIT	1	
Q6002 (E29)	_	VEKS5200 2SD601 (Q)	PHOTO SENSOR UNIT	1	
Q6003	-	2SB709 (Q)	CHIP CHIP	1	
06005	\dashv	UN2212	CHIP	1	
Q6006		2SB709(Q)	CHIP .	- -	
Q6007	\dashv	RN4601	COMPLEX COMPONENT SI NPN/PNP	1	
	\dashv		CHIP		
06201	\dashv	2SB709 (Q)	CHIP	1	
07002		2SD601 (Q)	CHIP	1	
07502, 7503		2SD601 (Q)	CHIP	2	
	1	***************************************	DIODES		
-					
D1201		MA4100N	ZENER 10V	1	
D1202-1204		MA4100N WG713A		1 3	
D1202-1204 D3001-3005	-				
D1202-1204		WG713A MA165 MA165		3	
D1202-1204 D3001-3005 D3006		WG713A MA165 MA165 (A, B, C, D, E, F, G)	ZENER 10V	3 5 1	
D1202-1204 D3001-3005 D3006 D3007, 3008		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M	ZENER 10V ZENER 9. 1V	3 5 1	
D1202-1204 D3001-3005 D3006		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M	ZENER 10V	3 5 1	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H)	ZENER 10V ZENER 9. 1V	3 5 1 2 1	
D1202-1204 D3001-3005 D3006 D3007, 3008		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H)	ZENER 10V ZENER 9. 1V	3 5 1	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H)	ZENER 10V ZENER 9. 1V	3 5 1 2 1	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H)	ZENER 10V ZENER 9.1V ZENER 13Y	3 5 1 2 1	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001 D6001 (E30)		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H) WG713A VEKS5201	ZENER 10V ZENER 9. 1V	3 · 5 · 1 · · · · · · · · · · · · · · · ·	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001 D6001 (E30) D6002, 6003		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H) WG713A	ZENER 10V ZENER 9.1V ZENER 13Y	3 5 1 2 1 1 1 2	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001 D6001 (E30) D6002, 6003 D6201-6204		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H) WG713A WG713A	ZENER 10V ZENER 9.1V ZENER 13Y	3 5 1 2 1 1 1 1 2 4	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001 D6001 (E30) D6002, 6003		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H) WG713A WG713A WG713A	ZENER 10V ZENER 9.1V ZENER 13Y	3 5 1 2 1 1 1 2	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001 D6001 (E30) D6002, 6003 D6201-6204 D6205		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H) WG713A VEKS5201 WG713A WG713A WG713A	ZENER 10V ZENER 9.1V ZENER 13Y	3 5 1 2 1 1 1 2 4	
D1202-1204 D3001-3005 D3006 D3007, 3008 D3602 D3603 D4001 D6001 (E30) D6002, 6003 D6201-6204		WG713A MA165 MA165 (A, B, C, D, E, F, G) MA4091-M MA4130-M (H) MA165 (H) WG713A WG713A WG713A	ZENER 10V ZENER 9.1V ZENER 13Y	3 5 1 2 1 1 1 1 2 4	

Pcs/

Remarks

Part Name & Description

Ref. No.		Part No.	Part Name & Desc	cription	Pcs/ Set	Remarks
D7005	_	MA4062-H	ZENER	6. 2V	. 1	
D7534		MA4051-M	ZENER	5, 10	: 1 ·	7151 199 9
		7 8 2 9	· v pros	91 CS	4.7927	1381
			d e		14	1.1
			RESISTORS	31 A1	1364 : a	300 - 000
R1201	Г	ERD21LLJ472	CHIP	1/8W 4.7K	: 1	Add to the
R1202	Г	ERDS2TJ153	810	15K	4/19	127
R1204	r	ERDS2TJ153	7	15K	68 1 s	
R1209	Δ	ERQ12HJ1R0P	FUSE	1/2W 1	-1	
R1210	1444	ERDS2TJ222	1002	2. 2K	1	. 4:
R3003	-	EVNDXAA03B13	VARIABLE	1K	1	
R3004	-	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	a 32 1 +3	
	┝		MGF CHIP			1073 TO 2020
R3005, 3006		ERJ6GEYJ103V			2	
R3007	-	ERJ6GEYJ222V	MOI OIIII	1/10W 2.2K	4.0/ 1 (7	
R3008	L	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	1.59	KIN 1, KIN
R3009	L	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	ाः	agi jerjan i
R3010, 3011	L	EVNDXAA03B24	VARIABLE	20K	2	200
R3012		ERJ6GEYJ182V	MGF CHIP	1/10W 1.8K	16 A	.63 (Chair
R3013	L	ERJ6GEYJ151V	MGF CHIP	1/10W 150	1	337 Jac
R3014		EVNDXAA03B24	VARIABLE	20K	215 1 07	VORT 1 15000
R3015		EVNDXAA03B13	VARIABLE	1K	11	No. (mger)
R3016	Г	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	1	AP 1 371
R3017		ERJ6GEYJ394V	MGF CHIP	1/10W 390K	1	- H-W-1
R3018	Γ	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	\$-1 ×	
R3019, 3020	Г	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	2	281
R3021	1	ERJ6GEYJ391V	MGF CHIP	1/10W 390	1.1	1044 E 1943
R3022, 3023	\vdash	ERJ6GEYJ102V	MGF CHIP	1/10W / 1K	2	
R3024	\vdash	ERJ6GEYJ391V	MGF CHIP	1/10W 390	1	59 1847
R3025	-	ERJ6GEYJ221V	MGF CHIP	1/10W 220	1	
110020	┝	(A, B, C, D, E, F, G)	707-400- 110	0 645)	411	DA - 200
	-	,	MGF CHIP	1/10W 390	100	
	⊢	ERJ6GEYJ391V	MOF CHIF	1/10# 350	-	
2000	├	(H)		. //	-	
R3026	<u> </u>	ERJ6GEYJ824V	MGF CHIP	1/10W 820K	1	
R3027	ļ.,	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	1	
R3028	┡	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	1	
R3029	_	ERJ6GEYJ474V	MGF CHIP	1/10W 470K	े 1	
R3030	L	ERJ6GEYJ155V	MGF CHIP	1/10W 1.5M	/ 1	2. e
R3031		ERJ6GEYJ391V	MGF CHIP	1/10W 390	1	
R3032	L	ERJ6GEYJ392V	MGF CHIP	1/10W 3.9K	1	Til. 1985
R3033		ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	1	250
R3034	Г	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	1941	1.5
R3035	1	ERJ6GEYJ822V	MGF CHIP	1/10W 8.2K	1	
R3036		ERJ6GEYJ273V	MGF CHIP	1/10W 27K	-211-	Maria - Kara
R3037	\vdash	ERD21LLJ273	CHIP	1/8W 27K	-201a	(\$16 <u>- 10</u> 15)
R3038, 3039	-	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	2	gya sama
R3040		ERJ6GEYJ391V	MGE CHIP	1/10W 390	(31 Y	SE SUE SES
R3041	⊢	EVNDXAA03B24	VARIABLE	20K	338 1 Y	331 39760
R3042	1-	ERDS2TJ393	880-295 130	39K	334 1 5	22 98.00
N3042	-		1 402 5 1 4 2 2 2 2		Children Children	
20040	├-	(A, B, C, D, E, F, G)	LINE DILLE	3/3 Mary 1001		
R3043	├-		MGF CHIP		83 1 3	
	┡	(A, B, C, D, E, F, G)	807,420,0	1176/2	NM:	1032 WAS 169501
R3044	1	ERJ6GEYJ225V	MGF°CHIP	1/10W 2.2M		25 JF 77
R3045, 3046	L	ERJ6GEYJ103V	MGF CHIP	1/10W 10K		(B) L
R3047	_	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K		100 × 1000
R3048	L	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	_	af Av
R3049	L	ERJ6GEYJ122V	MGF CHIP	1/10W 1.2K	-31	581 522
R3050	L	ERJ6GEYG472V	MGF CHIP +-2%	1/10W 4.7K	चन्द्र ा ४	Q37 688 33887A
R3051	Ĺ	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	81 ::	Q + 15 (A2084);
R3052	Γ	ERD21LLJ103	CHIP 3	1/8₩ ≥10K	. 41 4	C 052.7
		(A, B, C, D, E, F, G)	1 85 4940)	21 SQ840	39 C	014 (1986) .
R3053, 3054	Π	ERJ6GEYJ333V	MGF CHIP: 1980	1/10W 33K	∵-2	0.43 kn8x3
R3055	T	ERJ6GEYJ561V	MGF CHIP	1/10W 560	:1	
R3056	T	ERDS2TJ101	W10	100	09. 1 s	ra 635)
R3057	t	ERJ6GEYJ331V	MGF CHIP	1/10W 330	2.1	158 168 6 1
R3058	\vdash	ERJ6GEYJ824V	MGF CHIP	1/10W 820K	1	1.05/400
R3059	+	ERJ6GEYJ183V		1/10W 18K		Q80 G88
R3060	+		MGF CHIP	1/10W 10K	1	
110000	╁	ERJ6GEYJ103V	mOF OFF		3310	198 ² 1844.
22001	-	(A, B, C, D, E, F, G)	HOT OUD	- A636		
R3061	╀	ERJ6GEYJ271V		1/10W 270	*01 °	(ha.)
R3062	+	ERJ6GEYJ683V	MGF CHIP	1/10W 68K		(A.)
R3063	1	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	1041%	ingal some o
R3066	L	ERJ6GEYJ822V	MGF CHIP	1/10W 8.2K	第.17	54, rest
R3201	L	ERJ6GEYJ821V	MGF CHIP	1/10W 820	1147	51 mai
R3202	•	ERJ6GEY0R00V	MGF CHIP	1/10W 0	ា៖	TH 19841
R3203	Γ	ERJ6GEYJ225V	MGF CHIP	1/10W 2.2M	£.15	Do Maria
R3301	Г	ERJ6GEYJ102V		1/10W 1K	X113	50 10AG
R3302	1	ERJ6GEYJ101V	MGF CHIP	1/10W 100	1.1	2.1 L.1.
R3303	1	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	'ac1'	
R3304-3306	1	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	- 3	
R3307, 3308	+	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	2	
, 0000		,				l

Ref. No.		Part No.	Part Name &	Description	Pcs/ Set	Remarks
R3601		ERJ6GEYJ331V	MGF CHIP	1/10W 330	1	4
D3602	-	(H)	NCE CHIP	1/10W 270	31 7 7	ryna a fatya s
R3602	-	ERJ6GEYJ271V	MGF CHIP	1/10W 270	1	rain a liter i Wi
R3603		ERJ6GEYJ680V	MGF CHIP	1/10W 68	** 	:/3:
		(ዘ)				9. ;
R3604	•	ERJ6GEY0R00V	MGF CHIP	1/10W 0	1	3011
	_	(A, B, C, D, E, F, G) ERD21LLJ183	CHIP	1/8W 18K	6.3223 6.3	asii v
	Н	(H)	GIII	17011 100.		
R4001		ERD21LLJ103	CHIP	1/8W 10K	. 1	, C
R4002		ERD21LLJ334	CHIP	1/8W 330K	- 1	A
R4003	L	ERD21LLJ221	CHIP	1/8W 220	. 1	2,3 %
R4004	L	ERD21LLJ333 ***	CHIP	1/8W 33K	1	Nev
R4005 R4006	\vdash	ERD21LLJ225 ERD21LLJ681	CHIP	1/8W 2.2M	1	24.1 45.1
R4007	H	ERD21LLJ821	CHIP	1/8W 820	1	a' a
R4008		ERJ6GEYG183Z	MGF CHIP +-2%	1/10W 18K	. 1	201
R4009		ERD21LLJ473	CHIP	1/8W 47K	. : 1 *	al co
R4010	•	ERD21LL0 X6011 46	CHIP	1/8W -0	.7. 1 13	A
R4011		ERD21LLJ682	CHIP	1/8W 6.8K	1	4.47
R4012 R4013	-	ERD21LLJ223 ERD21LLJ473	CHIP	1/8W 22K	1	Pro I
R4014, 4015	-	ERD21LLJ473	CHIP	1/8W 47K	2	13 N
R4016	-	ERD21LLJ473	CHIP	1/8W 47K	1	947 93
R4018		ERD21LLJ562	CHIP	1/8W 5.6K	J.15	
R4019		ERD21LLJ123	CHIP	1/8W 12K	-1	William III
R4020, 4021		ERDS2TJ473		47K	2	2.24
R4030	<u> </u>	ERD21LLJ393	CHIP	1/8W 39K	. 1	y 1
R4031 R4101	-	ERD21LLJ561 FRD21LLJ154	CHIP	1/8W 560	1	9.2. N
R4101	-	ERD21LLJ154 ERJ6GEYG473Z	MGF CHIP +-2%		-	9 7 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -
R4102	-	ERD21LLJ153	MGF CHIP +-2% CHIP	1/10W 47K	1	glanda e e
R4151	-	ERD21LLJ561	CHIP	1/8W 560	1	
R4152	-	ERDS2TJ221		220	1	
R4153		ERD21LLJ823	CHIP	1/8W 82K	1	ng ta
R4155		ERD21LLJ392	CHIP	1/8W 3.9K	1	
	_	(A, B, C, D)				1, 2
		ERD21LLJ182	CHIP	1/8W 1.8K		11.09
R4156		(E,F,G,H)	WETAL OVIDE	1W 0.1	-	evêr 13 138
R4156 R4157, 4158	Δ	ERX1SJ9R1P ERD21LLJ103	METAL OXIDE	1W 9.1	2	Mile A Marie Salata
R4159	-	ERDS2TJ100		10	1	erit er and
R4160		ERD21LLJ561	CHIP	1/8W 560	1	
		(A, B, C, D)		330 1065	775	ger stat va
		ERD21LLJ391	CHIP	1/8W 390		in in
DUID	L	(E, F, G, H)	2005	1951 145		REI X
R4161	<u> </u>	ERD21LLJ392	CHIP	1/8W 3.9K		Se
R6002 R6003-6005	-	ERD21LLJ223 ERD21LLJ563	CHIP	1/8W 22K		Mai Mai
R6006-6008	H	ERD21LLJ102	CHIP	1/8W 56K	3	751 S
R6009		ERD21LLJ222	CHIP	1/8W 2.2K	1	(000) (3) (0) (1)
R6010, 6011	_	ERD21LLJ221	CHIP	1/8W 220	2	alist
R6015		ERD21LLJ332	CHIP	1/8W 3/3K	. 4	1914)
R6018, 6019		ERD21LLJ102	CHIP	1/8W 1K	2	44)
R6021		ERD21LLJ102	CHIP	1/8W 1K	1.11 8	88 - Jan 194
R6022, 6023	L	ERD21LLJ221	CHIP	1/8W 220	2	MW . es.
R6025	L-	ERD21LLJ272	CHIP	1/8W 2.7K	1	\$293 ·
R6028 R6029	<u> </u>	ERD21LLJ223	CHIP	1/8W 22K		At a constant
R6032	-	ERD21LLJ272 ERD21LLJ224	CHIP	1/8W 2.7K	2019 2019	965 : : 1943 : gvi 18
R6033, 6034	-	ERD21LLJ153	CHIP	1/8W 15K	2	(A) A0 0
5, 5004	_	(H) (H)		7,011 136	11:11	72
R6035		ERD21LLJ223	CHIP	1/8W 22K	1	
		(H) (h)		15	7132	0213 Y 3 Y
R6036-6049		ERD21LLJ223	CHIP	1/8W 22K		4F1 184
		ERD21LLJ223	CHIP	1/8W 22K		352 · 157 8
R6050	1	(A, B, C, D, E, F, G)	OULD.	1 (04) 004	, 151 J	80 385 38 00 00
	\vdash	ERD21LLJ223	CHIP	1/8W 22K	2.313	(6) 14 (6) 1 1 1
R6051			ILBIP	1/8W 10K		1943) - 1700 Tu
R6051 R6052		ERD21LLJ103		11/0W 1V		
R6051 R6052 R6053		ERD21LLJ103 49 ERD21LLJ102 98	CHIP .	1/8W 1K		
R6051 R6052 R6053 R6054		ERD21LLJ103 49 ERD21LLJ102 59 ERD21LLJ103	CHIP .	1/8W 10K	1	
R6051 R6052 R6053		ERD21LLJ103 49 ERD21LLJ102 98	CHIP CHIP CHIP			
R6051 R6052 R6053 R6054 R6055		ERD21LLJ103 481 ERD21LLJ102 281 ERD21LLJ103 ERD21LLJ102	CHIP CHIP CHIP	1/8W 10K 1/8W 1K	1	22
R6051 R6052 R6053 R6054 R6055 R6056, 6057		ERD21LLJ103 *** ERD21LLJ102 *** ERD21LLJ103 ERD21LLJ102 ERO21LLJ103	CHIP CHIP CHIP CHIP	1/8W 10K 1/8W 1K 1/8W 10K 1/8W 68K	1 2	
R6051 R6052 R6053 R6054 R6055 R6056, 6057 R6058 R6059		ERD21LLJ103 400 ERD21LLJ102 100 ERD21LLJ102 100 ERD21LLJ103 100 ERD21LLJ683 10	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	1/8W 10K 1/8W 1K 1/8W 10K 1/8W 68K 1/8W 22K 1/8W 47K	1 1 2	
R6051 R6052 R6053 R6054 R6055 R6056, 6057 R6058 R6059		ER021LLJ103 ER021LLJ102 ER021LLJ103 ER021LLJ102 ER021LLJ103 ER021LLJ103 ER021LLJ103 ER021LLJ223	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	1/8W 10K 1/8W 1K 1/8W 10K 1/8W 68K 1/8W 22K	1 1 2 	

Ref. No.		Part No.		Description	Pcs/ Set	Remarks
6072		ERD21LLJ102	CHIP	1/8W 1K	+	
6073	L	ERDS2TJ560		56	+	·
	Δ	ERG1SJ120E	METAL OXIDE	1W 12	-	-
6077	_	ERD21LLJ822	CHIP	1/8W 8.2K		
6201		EVNDXAA03B15	VARIABLE	100K		
6202	_	ERD21LLJ473	CHIP	1/8W 47K		
6203		ERD21LLJ392	CHIP	1/8W 3.9K		
6204	_	ERD21LLJ222	CHIP	1/8W 2.2K	-	
6205	<u> </u>	ERD21LLJ394	CHIP	1/8W 390K	-	
6206	<u> </u>	ERD21LLJ123	CHIP	1/8W 12K		
6207	L	ERD21LLJ823	CHIP	1/8W 82K		
6208	<u> </u>	ERD21LLJ394	CHIP	1/8W 390K	-	
6209	L	ERD21LLJ124	CHIP	1/8W 120K	+	
6210	_	ERD21LLJ103	CHIP	1/8W 10K		
6211	_	ERD21LLJ223	CHIP	1/8W 22K		
6212	<u>_</u>	ERD21LLJ103	CHIP	1/8W 10K	+	
213	\vdash	ERD21LLJ472	CHIP	1/8W 4.7K	_	
5214	L	ERD21LLJ154	CHIP	1/8W 150K	-	
6215	L	ERD21LLJ473	CHIP	1/8W 47K		
5216	L	ERD21LLJ224	CHIP	1/8W 220K	_	
5217	L	ERD21LLJ221	CHIP	1/8W 220	_	
3218	L	ERD21LLJ472	CHIP	1/8W 4.7K	_	
6220	_	ERD21LLJ682	CHIP	1/8W 6.8K		
6221	L	ERD21LLJ222	CHIP	1/8W 2.2K	_	
5222	L	ERD21LLJ472	CHIP	1/8W 4.7K		
6223	L	ERD21LLJ225	CHIP	1/8W 2.2M		
6224	L	ERD21LLJ221	CH1P	1/8W 220	-	
6225	L	ERD21LLJ103	CHIP	1/8W 10K	_	
5226	Ĺ	ERD21LLJ102	CHIP	1/8W 1K	_	
3228	Ĺ	ERD21LLJ274	CHIP	1/8W 270K		
6229	Ĺ	ERD21LLJ223	CHIP	1/8W 22K		
5231	Ĺ	ERD21LLJ472	CHIP	1/8W 4.7K		
5232, 6233		ERD21LLJ103	CHIP	1/8W 10K	2	
6234		ERD21LLJ222	CHIP	1/8W 2.2K	1	
235		ERD21LLJ152	CHIP	1/8W 1.5K		
5238	Γ	ERD21LLJ102	CHIP	1/8W 1K	1	
5243	Г	ERD21LLJ102	CHIP	1/8W 1K	1	
5260	Γ	ERD21LLJ222	CHIP	1/8W 2.2K	1	
7001	•	ļ	CHIP	1/8W C	1	
7002	ŕ	ERD21LLJ271	CHIP	1/8W 270	1	
003	1	ERDS2TJ471		470	+	
501-7503	T	ERD21LLJ101	CHIP	1/8W 100		
504-7507	\vdash	ERD21LLJ102	CHIP	1/8W 1K	+	
509, 7510	1	ERD21LLJ102	CHIP	1/8W 1K	-	
7512-7519	\vdash	ERD21LLJ223	CHIP	1/8W 22K		
7520-7522	 	ERD21LLJ102	CHIP	1/8W 1K		
7525	<u> </u>	ERD21LLJ222	CHIP	1/8W 2.2K	+	
7526	╁	ERD21LLJ563	CHIP	1/8W 56K	-	
7527	╆	ERD21LLJ222	CHIP	1/8W 2.2K		
7529	╁╴	ERD21LLJ563	CHIP	1/8W 56K		
7530	+	ERD21LLJ222	CHIP	1/8W 2.2K	_	
7530 7531	+	ERD21LLJ102	CHIP	1/8W 1K	_	
7535	+	ERD21LLJ102	CHIP	1/8W 1K		-
539	+	ERD21LLJ334	CHIP	1/8W 330k		
7541	+	ERDS2TJ334	CHIP	330	4	
	+				+	
7542, 7543	\vdash	ERDS2TJ181	CUID	1/9W 3 3K		
549	\vdash	ERD21LLJ332	CHIP	1/8W 3.3k		
550	+-	ERD21LLJ104	CHIP	1/8W 100k		
7551	+	ERD21LLJ223	CHIP	1/8W 22K		
557	\vdash	ERD21LLJ102	CHIP	1/8W 1K		
7565, 7566		ERD21LLJ102	CHIP	1/8W 1k		
7567-7569	1	ERD21LLJ682	CHIP	1/8W 6.8k		
7570	Ļ	ERD21LLJ103	CHIP	1/8W 10k	+	
1573-7575	•		CHIP	1/8W C		
579	\downarrow	ERDS2TJ181		180		
7580	L	ERD21LLJ223	CHIP	1/8W 22k		
581-7584	-	ERD21LLJ563	CHIP	1/8W 56k		
7585, 7586	L	ERD21LLJ183	CHIP	1/8W 18k		
7587	Ĺ	ERDS2TJ821		820		
7591-7593	Γ	ERD21LLJ103	CHIP	1/8W 10k	3	
7597, 7598		ERD21LLJ563	CHIP	1/8W 56k	2	
	Γ					
	Γ					
	1		CAPACITORS			
	L	T	ELECTROLVEIC	50V 0.47	1	
1201	İ	ECEA1HKAR47	ELECTROLYTIC	JUY 0.41		
1201	Ė	ECEA1HKAR47 ECEA1CKA100	ELECTROLYTIC	16V 10	+	
	-				1	,
202 001		ECEA1CKA100	ELECTROLYTIC ELECTROLYTIC	16V 10) 1	·
202		ECEA1CKA100 ECEA0JKA221	ELECTROLYTIC ELECTROLYTIC C CHIP +80	16V 10 6. 3V 220	1 1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C3005	ECUV1H330JCN	C CHIP +-5% 50V 33P	1	
C3007, 3008	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7	-	
C3009	ECEA1HKAR47	ELECTROLYTIC 50V 0.47		
C3010	ECUV1H181JCN	C CHIP +-5% 50V 180P	·	
C3011	ECEA1HKAR47	ELECTROLYTIC 50V 0.47	1 1	
C3012	ECUVIC224ZFN	C CHIP +80%-20% 16V 0.22 ELECTROLYTIC 6.3V 220	-	
C3013	ECEA0JKA221 ECEA1HKA2R2	ELECTROLYTIC 6. 3V 220		
C3015			-	
C3016	ECEA1HKAR22 ECUV1H820JCN	C CHIP +-5% 50V 82P		
C3018	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	 	
C3019	ECEA1HKA010	ELECTROLYTIC 50V 1	 	
C3013	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	Ϊ́	
C3021	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2		
C3022	ECUV1H822KBN	C CHIP 50V 0, 0082	+	
C3024	ECEA1CKA100	ELECTROLYTIC 16V 10	 	
C3025	ECEA1HKAOR1	ELECTROLYTIC 50V 0.1		
C3026	ECUV1H680JCN	C CHIP +-5% 50V 68P		
C3027	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		
C3028	ECUV1H102KBN	C CHIP 50V 0.001	ΙÌ	
C3029	ECUV1H332KBN	C CHIP 50V 0.0033		
C3031, 3032	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	2	
C3031, 3032	ECUV1C474ZFN	C CHIP +80%-20% 16V 0.47	1	
C3034	ECUV1H270JCN	C CHIP +-5% 50V 27P		
C3034	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		
C3036	ECUV1H561JCN	C CHIP +-5% 50V 560P	·	
C3037	ECUV1H220JCN	C CHIP +-5% 50V 22P	+	
C3038	ECEA0JKA221	ELECTROLYTIC 6. 3V 220	-	
C3039, 3040	ECUVIE104ZFN	C CHIP +80%-20% 25V 0.1		
C3041	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	.,
C3043	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	ΙĖ	
C3045	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	-	
C3046	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3	+	
C3047	ECUV1C474ZFN	C CHIP +80%-20% 16V 0.47	+	
C3048	ECUV1H392K8N	C CHIP 50V 0.0039	+	
C3049	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2		
C3050	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3051	ECEA0JKA221	ELECTROLYTIC 6. 3V 220	1	
C3052	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	+	
C3053	ECUV1H150JCN	C CHIP +-5% 50V 15P	1	
C3054	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
	(H)			
C3055	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	1	
C3056	ECEA1CKA220	ELECTROLYTIC 16V 22	1	
C3057	ECUV1H390JCN	C CHIP +-5% 50V 39P	1	
C3201, 3202	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	2	
C3203	ECUV1H472KBN	C CHIP 50V 0.0047	1	
C3204	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
C3205	ECUV1H102KBN	C CHIP 50V 0.001	1	
C3206	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3207, 3208	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	2	
C3209	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3210	ECEA1HKA010	ELECTROLYTIC 50V 1	- 1	
C3211	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
C3212	ECEA0JKA221	ELECTROLYTIC 6. 3V 220	1	
C3301	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		
C3302, 3303	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01		
C3304, 3305	ECUV1H101JCN	C CHIP +-5% 50V 100P	2	
C3307	ECUV1H120JCN	C CHIP +-5% 50V 12P	1	
C3308	ECUV1H220JCN	C CHIP +-5% 50V 22P	1	
C3309	ECUV1H090CCN	C CHIP +-5% 50V 9P	1	
C3310	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
C3311	ECEA0JKA470	ELECTROLYTIC 6.3V 47	1	
C3603	ECUV1H390JCN	C CHIP +-5% 50V 39P	1	
	(H)			
C3604	ECA0JM471B	ELECTROLYTIC 6. 3V 470	1	
	(H)			
C4001	ECUV1E104KBN	C CHIP 25V 0.1	1	
C4002	ECST1CY105	TANTALUM CHIP 16V 1		
C4003	ECUZ1H272KBN	C CHIP 50V 0.0027		
C4004	ECUZ1H103KBN	C CHIP 50V 0.01	1	
C4005	ECEA0JK220	ELECTROLYTIC 6. 3V 22		
C4006	ECUV1H102KBN	C CHIP 50V 0.001	1	
C4007	ECEA1CKA220	ELECTROLYTIC 16V 22		
C4008	ECEA0JKA470	ELECTROLYTIC 6. 3V 47		
C4009	ECEA1CKA100	ELECTROLYTIC 16V 10		
C4010	ECUV1E223KBN	C CHIP 25V 0.022		
C4011	ECUZ1H822KBN	C CHIP 50V 0.0082		
C4012	ECEA1HKA010	ELECTROLYTIC 50V 1	1	

				and the second	(E10, E11, E1	12)					* * * * * * * * * * * * * * * * * * * *
Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Γ	Part No.	Part	Name & Description	Pcs/ Set	Remarks
C4014	ECEA1HKA010	ELECTROLYTIC 200550V 1	1		C7517	┝	ECUZ1E104ZFN	C CHIP	+80%-20% 25V 0, 1		
C4014	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	1 1 1	C7520	┢	ECUZ1H101JCN	C CHIP	+-5% 50V 100F		Fago 5.3
C4016	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1.	+ 4 - 544 t	C7522, 7523	T	ECUZ1H101JCN	C CHIP	+-5% 50V 100F		T _a
C4018	ECEA1HKA010	ELECTROLYTIC 50V 1	1		C7526		ECEA1CKA100	ELECTROL	YTIC 16V 10	1	red .
C4019	VCYSARC103NY	CERAMIC +-30% 16V 0.01	1		C7527		ECUZ1H103ZFN	C CHIP	+80%-20% 50V 0.01	+	
C4030	ECUZ1E333KBN	C CHIP NATIONAL 25V 0.033	1		C7531	-	ECUZ1H103ZFN	C CHIP.	+80%-20% 50V 0.01	111	gray i
C4102	ECHS1562JZ3	POLYESTER +-5% 100V 0.0056 C CHIP 50V 0.01	2		<u> </u>	-		 	278(2)	9 8 .	Angel Company
C4103, 4104 C4106	ECUZ1H103KBN ECEA1CKA220	ELECTROLYTIC 16V 22	1			-		FILTER		-	(NEW)
C4151	ECEATCKA100	ELECTROLYTIC 16V 10			FL4001	H	VLFS0014			$+_{1}$	
	(A, B, C, D, H)			340148 to 1115		Τ					
	ECEA1CK100	ELECTROLYTIC 16V 10							4 3.11/400		já.
	(E, F, G)		<u> </u>			_		COILS			
C4152	ECEA1CKA470	ELECTROLYTIC 16V 47			L3001	Ļ	ELESN101KA	M3800 :	100 A 44 A 11 A 100	_	
C4154	ECEA1EK4R7	ELECTROLYTIC 25V 4.7	1		L3002 L3003	H	ELESN220KA ELESN680KA	1 1 1 1 1 1 1 1	1: N= 22		
	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7	134,00	12.5	L3004	-	ELESN330KA		33		
	(H)	V27708- 3341 333448	2.981 K.	user and	L3005	1	ELESN180KA		18		
C4155	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7	1		L3010]	ELESN101KA		100) 1	1 .
C4156	ECEA1EU471	ELECTROLYTIC 25V 470	-		L3012, 3013		ELESN101KA	.35	प्रतिकेशकार्थ 10€	_	
C4157, 4158	ECUZ1E473KBN 28		2	- 197 - 198	L3206	_	ELESN470KA	Ļ	47		A 1844
C4159	ECEATCKA100	ELECTROLYTIC 16V 10	—		L3301	⊢	ELESN101KA	 -	-980 -,100	+	\$80 L 108 L
C4160 C6001	VCYR1C104MX	ELECTROLYTIC 16V 470	1	2413.	L3302 L4001	+	VLOSH02R180J VLOS0030	 	+-5% 18		
C6001 C6003, 6004	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1	2	SUB:	L4001	+-	ELESN101KA	 	- 100 - 100 - 100		
C6005, 0004	ECUZ1H103ZFN	C CHIP +80%-20% 50V 0.01	1	1 1 1	L4051	1	VLOSH02R390K	 	39		tës takki
C6006	ECUZ1H101JCN	C CHIP +-5% 50V 100P	1			Ι	(A, B, C, D)				est cossissions.
C6007	ECEA1CKA100	ELECTROLYTIC 16V 10	1				VLOSH02R330K		33	3	
C6010	ECUZ1H103ZFN	C CHIP +80%-20% 50V 0.01	9.41	网络通信 点不			(E, F, G, H)			<u> </u>	
C6011	ECA0JM471B	ELECTROLYTIC 6. 3V 470		77c y.	L4101	<u> </u>	ELESN471KA	<u> </u>	800 V W 9 9 9 470		
C6015	ECUZ1H561KBN	C CHIP 50V 560P	1	12.5	L6001, 6002	┼-	ELESN4R7KA	-	4. 7		7.0
C6017	ECUZ1E104ZFN ECUZ1H102KBN	C CHIP +80%-20% 25V 0.1 C CHIP 50V 0.001	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L7001, 7002	┝	ELESN101KA	-	100	2	9 540 a
C6201	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7	i			1				 	
C6202	ECUZ1H102KBN	C CHIP 50V 0.001	1			1		CRYSTA	AL OSCILLATOR	1	
C6203	ECUZ1H103KBN	C CHIP 50V 0.01	1		X3001		VSXS0195			1	\$4
C6204	ECEA0JKA330	ELECTROLYTIC 6.3V 33			X6201		VSXS0168			1	\$ 15mm
C6205, 6206	ECUZ1H103KBN	C CHIP 50V 0.01	2		X7501	_	EF0EC4194T4	ļ		1	
C6207	ECEA0JKA470	ELECTROLYTIC 6. 3V 47	1		X7502	-	VSXS0176			1	<u> </u>
C6208	ECUZ1H470JCN ECUZ1H390JCN	C CHIP +-5% 50V 47P		##, VS 1		├-	3 7/8 N	:			8節1 * 1851*
C6210	ECUZ1H103ZFN	C CHIP +80%-20% 50V 0.01	1	Fig. 4.1		┝	988 (3	PIN HE	ADERS .		1998 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C6211	ECOB1H393KF	POLYESTER 50V 0,039	- i	ROLANI	P1201	-	VJSS0338	1	7,	1	ggail neighga
C6212	ECUZ1H181JCN	C CHIP +-5% 50V 180P	1	AN AL	P3001	T	VEKS4890	CONNECTO		1	190 1 39896
C6213	ECUZ1H182KBN	C CHIP 50V 0.0018	:∵1::	所以表示	P3002		VJPS0275		2 (C) 5F	1	904: 1 1A282
C6214	VCYR1C104MX	CERAMIC +-20% 16V 0.1	1	501 <u>*</u> 1 5105	P3003		VJPS0642		22F		983). coma
C6215	ECEA1HK010	ELECTROLYTIC 50V 1	111	30 6	P4101	_	VJSS0644		2F		網像。四個四個
	(A, B, C, D, E, F, G		45 1 X 3	70 A	P4151	L	VEKS5024	CONNECTO		1	Ad
<u> </u>	VCYR1C104MX	CERAMIC +-20% 16V 0.1	14883	MHA!	P4152 P4153	┝	VJPS0268 VJPS0273		1960 . .2F		(74) 17-47 13 1 14-47
C6216	VCYR1C104MX	CERAMIC +-20% 16V 0.1	-10	225) 195	P6001		VJPS0268		1146) 2 f	_	
C6217	ECUZ1H272KBN	C CHIP 50V 0.0027		544 575	P6201	T	VJPS0642	-	22F		12' 999
C6218	ECEA0JKA220	ELECTROLYTIC 6. 3V 22		ute i dita	P7501		VJWSJAB220AE	FLAT CAB		1	
C6219, 6220	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2		[MA] 8 10000	P7502		VEKS5023	CONNECTO	~	1	
C6221	ECUZ1H272KBN	C CHIP 50V 0.0027	1	35 1975		1			SOPPASS.		
C6222	ECEAOJKA220	ELECTROLYTIC 6. 3V 22				├-	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		JATY NORTH BURNET	\$ \$ \$ \$ 16 1000 100	DBH . UNAD
C6223	ECUZ1H102KBN ECEA0JKA220	C CHIP 50V 0.001 ELECTROLYTIC 6.3V 22	1	 	SW6002	\vdash	ESE1.05SV1		IES	x(54.0) (±14.13	(32)
C6225 C6226	ECEATCKA100	ELECTROLYTIC 16V 10		mavi i gjarë	SHOULZ	\vdash	ESE INDOM IS	CASSETTE		1 37	700 - 1088 50890 130 - 10890
C6227	ECUZ1E473ZFN	C CHIP +80%-20% 25V 0.047		85. V - 10.6	 	1	1 1 1 1 1	3	190): 46%	la rsci i	Det : 20880.
C6228	ECEA0JKA101	ELECTROLYTIC 6. 3V 100		ar y		T	1 1 2 2 32	FUSE &	PROTECTOR	112.	30 1941
C6229	ECUZ1H472KBN	C CHIP Y AT 850V 0.0047	्रा	10 × 1 × 1/4 × 1	PR1203	Δ	ICP-N38	IC PROTE			79 1798
C6230	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1	w.1:	gritte #		Δ	OR UN10015	IC PROTE	CTOR 1.54	15,15	A
C6231	ECUZ1E473KBN	C CHIP \$(10%) AT\$ 25V 0.047		97) \$		L	. 1 69		ingeneral v	a)((,i)a	Q2
C7001	ECEAOJKA221	ELECTROLYTICX AS 6. 3V 220		461.5		\vdash	1 15 /	 	CONTENTS OF	4 3474	(1) (1) (1)
C7002	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1 C CHIP +80%-20% 50V 0.01			T4101	├	VLTS0304		ORMER	3230X	(1944) (1945) (1944) - 1946)
C7004 C7007	ECUZ1H103ZFN ECUZ1E104ZFN	C CHIP +80%-20% 50V 0.01 C CHIP +80%-20% 25V 0.1	1	87 8 8 W	T4101	-	VLTS0304			A COST IN	7971 11387 1130
C7007	ECEA1CKA101	ELECTROLYTIC 16V 100	1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		+	2 5 5 A	2	<u>serva energia. Na</u>	1967 - A	53 17850 535 17850
C7009, 7010	ECUZ1H103ZFN	C CHIP +80%-20% 50V 0. 0.1	2	SOLA	 	 -		PRINTE	D CIRCUIT BOARD AS	SEMB	
C7501-7503	ECUZ1H102KBN	C CHIP 50V 0. 001	3	27° & :		Τ		T		1	
C7504, 7505	ECUZ1H101JCN	C CHIP +-5% 50V 100P	_	pá ji	E10	A	VEPS03125C2	CCV C. B.	A	1	E. S. D.
C7508, 7509	ECUZ1H101JCN	C CHIP +-5% 50V 100P		197 : E19					41.7853		
C7510	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1	1	e ,			2 2 2		Nagya (Kasara) (K	ود ب	मिक्स के किस्सू इ.स.च्या
C7511	ECUZ1H390JCN	C CHIP +-5% 50V 39P				L	integral pr		LANEOUS	11942	E.V. Idea R
C7512, 7513	ECUZ1H150JCN	C CHIP +-5% 50V 15P		943 g G 12	W0001 (511)	 	14 H100070		<u>469 /0.5%************************************</u>	1000	W 3
C7516	ECEAOJKA101	ELECTROLYTIC 6. 3V 100	1	9872 1 (2.10) 5.314	JK3601 (E11)	\vdash	VJHS0279	PIN JACK	White set	1/	1,5## .
 	(A, B, C, D, H) ECEA0JK101	ELECTROLYTIC 6.3V 100	1		E12	-	(H) VEQS0562	THE WHE	TUNER/TV DEMODULATOR	1	
 	(E, F, G)	222011021110 0.01 100	\vdash			1	400002	UNIT		 '	
	1			<u></u>	L	_	L			1	

(E13, E45, E51, E52, E74)

(E68, E78, E79)

(E13, E45, E	31,0	32, 614)				(E68, E78, E7	, 3,				
Ref. No.	П	Part No.	Part Name & Description	Pcs/	Remarks	Ref. No.	l	Part No.	Part Name & Description	Pcs/	Remarks
N81. NO.		rait No.	Tart Name & Description	Set	Nollal Ka	1101. 110.		Tart No.	Tare Haile & Description	Set	Romanka
E51		VHDS0276	SCREW 3X10	1					COILS	-	
E45		VMTS0035	CUSHION	4		L8501	Г	ELESN101KA	100	1	
E74	1	VMTS0094	CUSHION	1		L8504		ELESN101KA	100	1	
E13	1	VGPS2943	ANT TERMINAL PLATE	1			T				
210	-	(A, B, C, D, E, F, G)	THE TENTH OF THE	Ė			1				
E13	-	VGPS2941	ANT TERMINAL PLATE	-			-		PIN HEADERS		
EIS	Н	(H)	AITS TEIMETHAL S LATE			P8501	1	VJHS0299	9P	1	
CEA			SCREW 3X12	1		1 0301	 -	731130233	31	,	
E52		VHDS0319	SCREW SX12	<u>'</u>			┝			-	
		(H)					<u> </u>		<u> </u>		
				<u> </u>		<u> </u>	L		RESISTORS		
						J8509	•	ERD21LL0	CHIP 1/8W 0	1	
	▲		CCV C.B.A.			L					
						L	L				
			INTEGRATED CIRCUITS				Γ		MISCELLANEOUS		
1C8501		MC144143P1	IC MOS LOGIC CCV	1	E. S. D.		I				
1C8503	Т	NJM2235M	IC BIPOLAR LINEAR VIDEO INPUT	1		E68	Г	VEKS5221	LUG ASS'Y	1	
	1		SW			E78		VSCS2007	SHIELD CASE -TOP	1	
	\vdash			-		E79	T	VSCS2008	SHIELD CASE -BOTTOM	1	
	\vdash										
	┢		TRANSISTORS	-		 	╁			_	
08501	1	2SD601 (Q, R, S)	CHIP	1	 	 		l	POWER SUPPLY ASS'Y	├──	
08501	-	2SD601 (0, R, S)	CHIP	+	 	 	-	· · · · · · · · · · · · · · · · · · ·	- CHEROUFEI AGG I	\vdash	
Q8505	+-	200001 (U, N, S)	VIII	 ' -		 	-		INTEGRATED CIRCUITS	 	
	+-			├		101001	A	DOSEGN 1 V		-	
	\vdash		DIODEO		ļ	IC1001		PS2501-1-X	IC BIPOLAR LINEAR ERROR V. DET	1	
	-		DIODES	<u> </u>		 	Δ	OR 0N3131-R. KT	IC BIPOLAR LINEAR ERROR V. DET	ļ	
D8500	1	WG713A		1	ļ		L	ļ		<u> </u>	
D8504, 8505		WG713A		2			L			<u> </u>	
	L			<u> </u>			L		TRANSISTORS		
	L					Q1001		2SC4533LP, KT		1	
			RESISTORS	L			Δ	OR 2SC5130LF608		L	
R8500	Г	ERD21LLJ103	CHIP 1/8W 10K	1		Q1002	Δ	2SD1458		1	
R8502, 8503	T	ERD21LLJ102	CHIP 1/8W 1K	2		01003	Г	2SD636 (Q)		1	
R8505	1	ERD21LLJ102	CHIP 1/8W 1K	1		01004	1	2SB641 (Q)		1	
R8507	\vdash	ERD21LLJ103	CHIP 1/8W 10K			01005	 -	2SB641 (R)		1	
R8508	+	ERD21LLJ472	CHIP 1/8W 4.7K			4.000	<u> </u>			<u> </u>	
R8509, 8510	+-	ERD21LLJ122	CHIP 1/8W 1.2K				\vdash			 	
R8512	+	ERD21LLJ101	CHIP 1/8W 100				\vdash		DIODES		
			CHIP 1/8W 100			D1001	_	C1WD440	DIODES	- ⊢ , −	
R8516	-	ERD21LLJ101					-	S1WBA40		1	
R8517	_	ERD21LLJ471	CHIP 1/8W 470			D1002, 1003	+	ERA18-04		2	
R8518	<u> </u>	ERD21LLJ561	CHIP 1/8W 560			D1005	Δ			1	
R8519		ERD21LLJ471	CHIP 1/8W 470					OR 1SS244T-77			
R8537	L	ERD21LLJ684	CHIP 1/8W 680K	1		D1006		RU2YXLFC1		1	
R8539		ERD21LLJ222	CHIP 1/8W 2.2K	1			$ \Phi $	OR ERB32-01L3			
R8540		ERD21LLJ152	CHIP 1/8W 1.5K	1		D1007	Δ	MA188-TA5		1	
R8541	Т	ERD21LLJ392	CHIP 1/8W 3.9K	1			Δ	OR 1SS244T-77			
R8543	T	ERD21LLJ182	CHIP 1/8W 1.8K	1		D1008	Δ	D2S4M		1	
R8544, 8545		ERD21LL0	CHIP 1/8W 0	2			Δ	OR EK13			
R8546	1	ERD21LLJ182	CHIP 1/8W 1.8K	1			Λ	OR EK13F7			
R8547	1	ERD21LLJ102	CHIP 1/8W 1K					OR ERB83-004			
R8549	$^{+}$	ERD21LLJ474	CHIP 1/8W 470K	1				OR ERB83-004G1			
R8550	╁	ERD21LLJ101	CHIP 1/8W 100			D1011	-	MA4051NH	ZENER 5. 1V	1	
R8551	+-	ERD21LLJ471	CHIP 1/8W 470		 	D1012	\vdash	MA858	J. L. C. L. L. C. L. L. C. L. L. C. L. L. C. L.	1	
110001	+-	LIDET LLOWIT	1/08 470	+ '	<u> </u>	D1012	+	MA165		- 1	
	+		<u> </u>		 		-		ZENED 101		
ļ	+-	 	040400000	 	 	D1015	14	MA2180LF	ZENER 18V		
L	1		CAPACITORS	!	ļ <u> </u>	D1016	-	MA165		1	<u> </u>
C8500	+	ECEA1EK4R7	ELECTROLYTIC 25V 4.7		ļ		-			<u> </u>	·
C8503	1	ECOV1H224JM	POLYESTER +-5% 50V 0.22				1	!		<u> </u>	
C8504, 8505	4	ECUZ1H101JCN	C CHIP +-5% 50V 100P				_		RESISTORS	ļ	
C8507	1	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1	1		R1003	L	VRESE2TJ334	1/2W 330K	1	
C8508	L	ECUZ1H103KBN	C CHIP 50V 0.01			R1004		ERG2SJM333H	METAL OXIDE 2W 33K	1	
C8511	1	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1	1				OR ERG2SJS333H	METAL OXÍDE 2W 33K	L	
C8512	T	ECUZ1H561KBN	C CHIP 50V 560P	1			Δ	OR ERG2SJ333H	METAL OXIDE 2W 33K		
C8513	\top	ECUZ1H103ZFN	C CHIP +80%-20% 50V 0.01	1		R1005	Δ	ERG1SJM560P	METAL OXIDE 1W 56	1	
C8514	\top	ECEA0JK470	ELECTROLYTIC 6. 3V 47				+==	OR ERG1SJS560P	METAL OXIDE 1W 56		
C8531	\top	ECEA1HK2R2	ELECTROLYTIC 50V 2.2				+		METAL OXIDE 1W 56		
C8532	+	ECUZ1H103ZFN	C CHIP +80%-20% 50V 0.01		· · · · · · · · · · ·	R1006	1	ERDS2TJ222	2. 2K		
C8533	+	ECEAOJK470	ELECTROLYTIC 6. 3V 47		 	R1007	1	ERDS2TJ101	100		
C8534	+-	ECEA1HK2R2	ELECTROLYTIC 5.3V 47			R1007	+-	ERDS2TJ392	3. 9K	+	,
	+				ļ		-				<u> </u>
C8537	+	ECEA1HK2R2	ELECTROLYTIC 50V 2.2			KIUIU, 1011	-	ERD25FJ100P	10		
C8538	4-	ECUZ1E104ZFN	C CHIP +80%-20% 25V 0.1	1	ļI		+	OR ERD25FPJ100P	10		
L	_				 	-	+	OR VRESF4FJ100P	10		
	1			<u> </u>	<u> </u>	R1014, 1015	L	ERDS2TJ221	220		
	1		FILTERS			R1016	L	ERDS2TJ562	5. 6K	1	
FL8501, 850	2	VLFSAR1H330	COMPLEX COMPONENT 50V 33P	2		R1017		ERDS2TJ103	. 10K	1	
FL8503	Т	VLFSAR1H331	COMPLEX COMPONENT 50V 330P		[R1018		ER0S2TJ183	18K	1	
FL8504	+-	VLFSAR1H330	COMPLEX COMPONENT 50V 33P		-	R1019	1	ERDS2TJ392	3. 9K	1	
FL8505-850	 17	VLFSAR1H331	COMPLEX COMPONENT 50V 330P		 	R1020	\vdash	ERDS2TJ682	6. 8K	1	
1 20000-000	+	TEI ORNIHOUT	COME ELA COME CITATE SUY. SOUP	۳	 	R1020	+	ERDS2TJ221			<u> </u>
	+-				 	NIUZZ	-	LNDOZ IJZZI	220	- '-	
	+-				ļ	<u> </u>	-	· · · · · · · · · · · · · · · · · · ·			
L		L	<u> </u>	<u> </u>	L	L	1_	L	l		L

Port No. Port Port No. Port Port No. Port Port No. Port No. Port No. Port Port No. Port Port No. Port Por							(E14, E15, E1	6, E	19)			
Color A Schedulor Camer Came	Ref No	П	Part No.	Part Name & Description		Remarks	Ref No	П	Part No	Part Name & Description		Remarks
A	net. No.	Ц	121,010.		Set		101, 110.	Ц	1 41 € 110.		Set	TIGIII I KS
A 00 CONSIGNATION CARROLL CA							ļ	Ш		MISCELLANEOUS		
A B STOCKERSON CAMBEL CAMBAS CA	C1001				1			\sqcup		Luce Wolfers	-	
A S					_			-				
A. A. CANCELLONG CONTINUE	+-+			<u> </u>			_					
Section Company Comp		-					E10	Н	V3C32030	SHIELD CASE -BODY		
A ST COUNTY 1-700	C1002	+=+			1			\vdash				
A 98 COSMISSIONED CHARLE - 208 1 199 1 0030	1002	+								OPERATION I C.B.A.	\vdash	
A. OR VYSCHOSTON CONVECTOR 1294 0.003 CONVECTOR CONVECTO		-						H				
A. S. VICENSTORM CRAME -704 1290 0.003		-										
CHOOSE A CASTANDONIA CRAMIC -208 129 0.00 1		-						П		DIODES		
A 0		Δ	OR VCKSHKD332MH	CERAMIC +-20% 125V 0.0033			D7502, 7503		WG713A		2	
A G	C1003	Φ	VCKSFKK102MX	CERAMIC +-20% 125V 0.001	1		D7505		WG713A		1	
DECEMBER DECEMBER		Δ	OR VCKSFMK102MX									
A		_						Ц				
	C1004	=						Щ				
COMPAND COMMINICATION CONTINUE SOV 200 1		1					P7551	\vdash	VJSS0469	CONNECTOR 19P	1	
CHOPPE		\rightarrow			+			\vdash				
								Н				
CONTROL CON		-					OH7501 750	Ļļ	CYONADOCO		┝┷┤	
A CREATMARTS BETROLYTIC SW 4.7												
A. GR CESPHARTS B.CETRALTIC SW 4.7		-				<u> </u>					-	
A GR VESCHURRY BLEFRENTIC 50	01011	+=-			 -		011010	Н	ביעו אטטטוו	TOOL OF TOO	'-	
A GR VXSSHIAMPR LECTRIALTITIC SW 430 2	 	_			 			Н				
COURT OF A COUNTY	-			1					OPERATION I C.B.A.	\vdash		
	C1012, 1013	+		<u> </u>	2					· · · · · · · · · · · · · · · · · · ·	\vdash	
A OR VICSUMPRIATE ELECTRICATIC 18V 330	5.512, 1010	-						\vdash		, -, -, -,		
COLOR A SECRIMENTED ELECTROLYTIC SOV 4.7 1 1 1 1 1 1 1 1 1								Н		DIODES	\vdash	
A GR VCSSHIMATR ELECTROLYTIC SOV 4.7	C1014	-					07502, 7503	П	WG713A		2	
A GN VESSI HARRIP CLEDITALYTIC SOV 4.7								-				
CODE A ECENAL/STABLE ELECTRICATIC 6, 39 330 1		Δ	OR VCESV1H4R7B				D7510, 7511		MA4130-M	ZENER 13V	2	
A ON VISSIONATION 0.39 330 CONTROL C		Δ	OR VCES11H4R7B	ELECTROLYTIC 50V 4.7								
CIOTOT	C1016	Δ	ECEA0JEE331B	<u> </u>	1							
A OR ECEANIDICES ELECTRICYTIC 6, 39 1K												
A. OR VICSPANI JO28 BL COTROLYTIC 6. 39 1K	C1017	_					P7551	Ш	VJSS0469	CONNECTOR 19P	1	
A OR VESSOULOS ELECTRICYTIC 6.3 V K		_						Ц				
A. OR VCSSOL01202 ELECTRIXT1C G. 3V K		_										
A OR VCSRBOLIDAZ ELECTROLYTIC 6.39							NUTE 04 7500	Щ	FURDIBATA			-
DITECT		_						-		<u></u>		
C1021	01010	_						-				
Color							S#1510	\vdash	EVUPADUOR	PUSH SWITCH		
Å OR VCKSEJ0221KW CERMIC 125V 220P Å OR VCKSHJ221WR CERMIC +20X 125V 220P C1028 Å OR VCKSHJ221WR CERMIC +20X 125V 220P Å OR VCKSHJ221WR CERMIC +20X 125V 220P 1 Å OR VCKSHJ221WR CERMIC +20X 125V 220P DOPERATION II C.B.A. Å OR VCKSHJ221WR CERMIC +20X 125V 220P DOPERATION II C.B.A. Å OR VCKSHJ221WR CERMIC +20X 125V 220P DOPERATION II C.B.A. C1030 ECOBIHIB3JF POLYESTER +-5X 50V 0.018 1 I L1001 Å DR ELFIBO290A-P 29 I L1002 VLOSTAZZON +-20X 22 1 DESTINATION DIODES L1003 VLESTAGROW +-20X 22 1 DA591,4592 HZSCITD ZENER BY 2 L1005 VLESTAGROW +-20X 22 1 DA593,4594 HZSIZESTID ZENER BY 2 L1005 VLESTAGROW +-20X 22 1 DA593,4594 HZSIZESTID ZENER BY 2 L1005 VLESTAGROW +-20X 22 1 DA593,4594 HZSIZESTID ZENER BY 2		-						\vdash				
A GR VICKSHLD221WM CERAMIC +-20K 12SV 22DP	01025							\vdash		MISCELLANEOUS		
A OR VICKSHIDZZIMW CERMIC 4-20K 125V 220P 1	<u> </u>				-		J			MISCELLANEOUS		
COURS A CXXXXX21UB							F19		SPS-420-2-B	IR WIRELESS RECEIVING DETECTOR	1	 -
A OR VCKSLD221XW CERMIC	C1028											
A DR YCKSHUD221MM CERMIC +-20K 125V 220P		1						\sqcap				
A OR VCXSHL0221WW CERAUIC +-20% 125V 220P C1030 EC081H183JF POLYESTER +-5% 50V 0.018 1 C104501	$\overline{\mathbb{A}}$	OR VCKSHJD221MW	CERAMIC +-20% 125V 220P						OPERATION II C.B.A.			
COILS COIL				CERAMIC +-20% 125V 220P	1							
COLS COLS	C1030		ECOB1H183JF	POLYESTER +-5% 50V 0.018	1							
L1001										INTEGRATED CIRCUITS		
L1001		\Box					IC4501	П	UPC4570C	IC BIPLOAR LINEAR OP AMP	1	
A OR ELF18D290A-P								Ц				
L1002	L1001							Ц				
L1003	14655	1					Dura:	Ц	117050075			
D4583, 4594 HZS12B3TD ZENER 12V 2 2 2 2 2 2 2 2 2		4-4						-				
D7501 WG713A 1 D7504 WG713A 1 D7504 WG713A 1 D7504 WG713A 1 D7504 WG713A D7504 WG713A D7504 WG713A D7504 WG713A D7504 WG713A D7504 WG713A D7504 UN31GCPHLMU LED GREEN D7505 LN21RCPHLMV LED RED D7505 LN21RCPHLMV LED RED D7505 LN21RCPHLMV LED GREEN D7505 LN21RCPHLMU LED		1-1						_				
D7504 W6713A 1	L1006	+	VLP3UUU5A	22				_		ZENEK 12V		
PIN HEADERS D7554		\vdash			 							
P1001	ļ	+		DIN UEADEDO		L				I ED CBEEN		-
D7557 LN31GCPHLMU LED GREEN 1 D7558 LN41YCPHLM LED YELLOW 1 D7558 LN41YCHALOW 1 D7558 LN41	D1001	+	V IWO7RE17ARR		-							
D7558	L1001	\vdash	VOING LOE LAND	TEAT CAUCE IF	+ -			$\overline{}$		·		
FUSE & PROTECTOR	 	+-			-	ļ		-				
F1001		+		FUSE & PROTECTOR	\vdash		01300	Н	LITER TOFFILM	LED IELLUM	- ' 	
⚠ OR VSFS0012A16 FUSE 125V 1. 6A R4501 RESISTORS ⚠ OR XBA1C16NU100 FUSE 125V 1. 6A R4501 ERDS2TJ562 5. 6K 1 PR1001 ⚠ ICP-F38 IC PROTECTOR 1. 5A 1 R4502, 4503 ERDS2TJ104 100K 2 ⚠ OR UNIO015 IC PROTECTOR 1. 5A R4504 ERDS2TJ750 75 1 R4501 ERDS2TJ760 47 1 R4504 ERDS2TJ770 47 1 R4503 ERDS2TJ470 47 1 R4591, 4592 ERDS2TJ101 100 2 T1001 ⚠ VTPS0033 1 CAPACITORS CAPACITORS M OR ETS28AD1F5AC C4501 ECEA1HKN010 ELECTROLYTIC 50V 1 1	E1001	-	VSES0003A16		1			\vdash			$\vdash \vdash \vdash$	
⚠ OR XBAICIGNUIOO FUSE 125V 1.6A R4501 ERDS2TJ562 5.6K 1 PR1001 ⚠ ICP-F38 IC PROTECTOR 1.5A 1 R4502, 4503 ERDS2TJ104 100K 2 ⚠ OR UNI0015 IC PROTECTOR 1.5A R4504 ERDS2TJ750 75 1 MOR UNI0015 IC PROTECTOR 1.5A R4505 ERDS2TJ470 47 1 R4591, 4592 ERDS2TJ101 100 2 2 T1001 ⚠ VTPS0033 1 CAPACITORS CAPACITORS M OR ETS28AD1F5AC C4501 ECEA1HKN010 ELECTROLYTIC 50V 1 1	1 (001							$\vdash \vdash$		RESISTORS	├──┤	
PR1001 ▲ ICP-F38 IC PROTECTOR 1.5A 1 R4502, 4503 ERDS2TJ104 100K 2 ▲ OR ICP-F38-1 IC PROTECTOR 1.5A R4504 ERDS2TJ750 75 1 ▲ OR UNI0015 IC PROTECTOR 1.5A R4505 ERDS2TJ470 47 1 R4591, 4592 ERDS2TJ101 100 2 TRANSFORMER 1 CAPACITORS CAPACITORS ▲ OR ETS28AD1F5AC C4501 ECEA1HKN010 ELECTROLYTIC 50V 1 1	 	_					R4501	Н	FRDS2T-1562	· · · · · · · · · · · · · · · · · · ·	1	
▲ OR ICP-F38-1 IC PROTECTOR 1. 5A R4504 ERDS2TJ750 75 1 ▲ OR UN10015 IC PROTECTOR 1. 5A R4505 ERDS2TJ470 47 1 R4591, 4592 ERDS2TJ101 100 2 T1001 ▲ VTPS0033 1 CAPACITORS CAPACITORS ▲ OR ETS28AD1F5AC C4501 ECEA1HKN010 ELECTROLYTIC 50V 1	PR1001				_						-	
▲ OR UN10015 IC PROTECTOR 1.5A R4505 ER0S2TJ470 47 1 R4591, 4592 ERDS2TJ101 100 2 T1001 ▲ VTPS0033 1 CAPACITORS △ OR ETS28AD1F5AC C4501 ECEA1HKN010 ELECTROLYTIC 50V 1 1												
R4591, 4592 ERDS2TJ101 100 2											_	
TRANSFORMER		1"			\vdash						<u> </u>	
T1001		\dagger			I			\vdash		100		
T1001				TRANSFORMER				\sqcap				
△ OR ETS28AD1F5AC C4501 ECEA1HKN010 ELECTROLYTIC 50V 1 1	T1001	Δ	VTPS0033		1			\dashv		CAPACITORS		
							C4501		ECEA1HKN010		1	
		Π										

(E19, E21, E39)

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
	_		SWITCHES		
SW7508	_	EVOPAD05R	PUSH SWITCH	1	
SW7511-7514	-	EVQPAD05R	PUSH SWITCH	4	
			MISCELLANEOUS		
JK4501	_	VJHS0331	A/V JACK	1	
JK4591	_	VJJS0357	EARPHONE JACK	1	•
E19	_	SPS-420-2-B	IR WIRELESS RECEIVING DETECTOR	1	
E21		VMXS0583	LED SPACER	4	
			OPERATION II C.B.A.	_	
	_		(E,F,G,H)		
			1,-3,-1,-1		
			DIODES		
D7501		WG713A	•	1	
D7504		WG713A		1	
D7554		LN31GCPHLMU	LED GREEN	1	
D7555		LN21RCPHLMV	LED RED	1	
D7557	_	LN31GCPHLMU	LED GREEN	1	
D7558		LN41YCPHLM	LED YELLOW	1	ļ
				<u> </u>	
	_		CMITALE	<u> </u>	ļ
CHZEOC		EVORADOES	PUSH SWITCH	1	
SW7508 SW7511-7514	_	EVQPAD05R EVQPAD05R	PUSH SWITCH	4	
On1011-1014	-	LIGINOUSK	TOOL ONLIGH	 	
	-				
	-		MISCELLANEOUS	 	
	_				
E39		VMXS0575	LED SPACER	4	
	*		AUDIO/VIDEO JACK C.B.A		
			(E,F,G,H)		
	_		INTEGRATED CIRCUITS	<u> </u>	
IC4501		UPC4570C	IC BIPLOAR LINEAR OP AMP	1	
	_				
	_			ļ	
		U7050070	DIODES	-	<u> </u>
0.4501 4500	L		ZENER 5V	2	1
		HZS5C2TD	ZEMED DV	1	
D4501, 4502 D4591-4594		HZS9C1TD	ZENER 9V	4	
			ZENER 9V	4	
				4	
D4591-4594			ZENER 9V RESISTORS 5. 6K		
D4591-4594 R4501		HZS9C1TD ERDS2TJ562	RESISTORS	1	
D4591-4594 R4501 R4502, 4503		HZS9C1TD	RESISTORS 5. 6K	1 2	
D4591-4594 R4501 R4502, 4503 R4504		HZS9C1TD ERDS2TJ562 ERDS2TJ104	RESISTORS 5. 6K 100K	1 2 1	
R4501 R4502, 4503 R4504 R4505		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750	RESISTORS 5. 6K 100K 75	1 2 1	
R4501 R4502, 4503 R4504 R4505		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470	RESISTORS 5. 6K 100K 75 47	1 2 1	
R4501 R4502, 4503 R4504 R4505		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470	RESISTORS 5.6K 100K 75 47 100	1 2 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101	RESISTORS 5. 6K 100K 75 47 100	1 2 1 1 2	
R4501 R4502, 4503 R4504 R4505 R4505 R4501, 4592		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010	RESISTORS 5. 6K 100K 75 47 100	1 2 1 2	
R4501 R4502, 4503 R4504 R4505 R4505 R4505 R4591, 4592		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101	RESISTORS 5. 6K 100K 75 47 100	1 2 1 2	
R4501 R4502, 4503 R4504 R4505 R4505 R4501, 4592		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010	RESISTORS 5. 6K 100K 75 47 100	1 2 1 2	
R4501 R4502, 4503 R4504 R4505 R4505 R4591, 4592		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010	RESISTORS 5. 6K 100K 75 47 100	1 2 1 2	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF	RESISTORS 5. 6K 100K 75 47 100	1 2 1 1 2 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ECEA1HKN010 VCYSHRE104ZF	RESISTORS 5.6K 100K 100K 75 47 100	1 2 1 1 2 1 1 1 1 1	
R4501 R4502, 4503 R4504 R4504 R4504 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF	RESISTORS 5. 6K 100K 75 47 100	1 2 1 1 2 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ECEA1HKN010 VCYSHRE104ZF	RESISTORS 5.6K 100K 100K 75 47 100	1 2 1 1 2 1 1 1 1 1	
R4501 R4502, 4503 R4504 R4504 R4504 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ECEA1HKN010 VCYSHRE104ZF	Sections Section Sec	1 2 1 1 2 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ECEA1HKN010 VCYSHRE104ZF	RESISTORS 5.6K 100K 100K 75 47 100	1 2 1 1 2 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274	RESISTORS 5. 6K	1 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331	RESISTORS 5. 6K	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274	RESISTORS 5. 6K	1 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331	RESISTORS 5. 6K	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1	
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZSSC1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ104 ERDS2TJ750 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331 VJJS0357	RESISTORS 5. 6K	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZSSC1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ104 ERDS2TJ750 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331 VJJS0357	Sections Section Sec	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZSSC1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ104 ERDS2TJ750 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331 VJJS0357	Sections Section Sec	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591		HZSSC1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ104 ERDS2TJ750 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331 VJJS0357	RESISTORS 5. 6K 100K 75 47 100 CAPACITORS ELECTROLYTIC 50V 1 CERAMIC +80%-20% 25V 0. 1 PIN HEADERS CONNECTOR ASS'Y CONNECTOR ASS'Y MISCELLANEOUS A/V JACK EARPHONE JACK CAPSTAN MOTOR DRIVE	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591 JK4501 JK4501 JK4591		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ101 ECEA1HKN010 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331 VJJS0357	RESISTORS 5. 6K 100K 75 47 100 CAPACITORS ELECTROLYTIC 50V 1 CERAMIC +80%-20% 25V 0. 1 PIN HEADERS CONNECTOR ASS'Y CONNECTOR ASS'Y CONNECTOR ASS'Y MISCELLANEOUS A/V JACK EARPHONE JACK CAPSTAN MOTOR DRIVE INTEGRATED CIRCUITS	1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	A.
D4591-4594 R4501 R4502, 4503 R4504 R4505 R4591, 4592 C4501 C4502 P4501 P4591 JK4501 JK4501 JK4501 JK4501		HZS9C1TD ERDS2TJ562 ERDS2TJ104 ERDS2TJ104 ERDS2TJ750 ERDS2TJ470 ERDS2TJ470 ERDS2TJ470 VCYSHRE104ZF VEKS5272 VEKS5274 VJHS0331 VJJS0357 AN3826NK	RESISTORS 5. 6K 100K 75 47 100 CAPACITORS ELECTROLYTIC 50V 1 CERAMIC +80%-20% 25V 0. 1 PIN HEADERS CONNECTOR ASS'Y CONNECTOR ASS'Y MISCELLANEOUS A/V JACK EARPHONE JACK CAPSTAN MOTOR DRIVE INTEGRATED CIRCUITS IC BIPOLAR LINEAR CAP. DRIVE	1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	A.

Ref. No.		Part No.	Part Name & Description	Pcs/	Remarks
	<u> </u>		RESISTORS	Set	
R2501	-	VRESF2VJR68	1/2W 0.68	1	
R2503	-	VRDSAL8J270	CHIP 1/8W 27	<u> </u>	
R2504	\vdash	VRDSAL8J330	CHIP 1/8W 33	i	
32505	-	ERD10LLJ222	CHIP 1/8W 2.2K	1	
			1		
	-		CAPACITORS		
2501-2503		ECEA1CK100	ELECTROLYTIC 16V 10	3	
C2504		MCUV1C104ZFN	C CHIP +80%-20% 16V 0.1	1	1
2505		ECEATHU010	ELECTROLYTIC 50V 1	1	
2506		VCYW1C563KX	CERAMIC 16V 0.056	. 1	
2507, 2508		MCUV1C104ZFN	C CHIP +80%-20% 16V 0.1	2	
2509-2511		VCUSBCC103NY	C CHIP +-30% 16V 0.01	3	
2512	_	VCUSDCC152NX	C CHIP +-30% 16V 0.0015	1	
	-				
			PIN HEADERS		
P2501	<u> </u>	VJSS0648	22P	1	
P2503	H	VJWS6HB095LE	FLAT CABLE 6P	1	
			HEAD AMP ASS'Y (A,B,C,D,E,F,G)		
102601	F	AN301 2V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR CYL. DRIVE		
IC2601 IC3501	\vdash	AN3813K AN3362K	IC BIPOLAR LINEAR CYL. DRIVE	1	
103301	-	MIGOUZA	TO DIFULAR LINEAR HEAD AMP	1	
2001 521	Ĺ	CD 1605V 1474V	RESISTORS		
R2601-2603	-	ERJ6GEYJ471V	MGF CHIP 1/10W 470	3	
R2604	-	ERDS2TJ1R0	1	1	
R2605		ERDS2TJ1R2	1.2	1	
R2606	\vdash	ERJ6GEYJ561V	MGF CHIP 1/10W 560	1	
R3504, 3505	-	ERJ6GEYJ560V	MGF CHIP 1/10W 56	2	
R3506	<u> </u>	ERJ6GEYJ331V	MGF CHIP 1/10W 330	1	
R3508	<u> </u>	ERJ6GEYJ100V	MGF CHIP 1/10W 10	1	
	<u> </u>				
	\vdash		CAPACITORS		
C2601-2603	Н	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	3	
C2604-2607	\vdash	ECUV1E104KBN	C CHIP 25V 0.1	4	
C2608, 2609	\vdash	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	2	· · · · · · · · · · · · · · · · · · ·
C2610	-	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
C2611	-	ECUV1E223KBN	C CHIP 25V 0.022	1	
C2612	\vdash	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3504	-	ECEA1CKA470	ELECTROLYTIC 16V 47	1	
C3505	\vdash	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
C3506	 	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3519	-	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3520	-	ECUV1C224ZFN	C CHIP +80%-20% 16V 0. 22	. 1	
C3524	-	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	1	
C3525	\vdash	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
C3529	Н	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	1	
C3532	\vdash	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	1	
	-		COILS		
L3501		ELESN101KA	100	1	
	L				
			PIN HEADERS		
P3501	F	VJSS0648	22P	1	
	-				
	瞾		HEAD AMP ASS'Y		
	-		(H)		
			INTEGRATED CIRCUITS		
IC2601		AN3813K	IC BIPOLAR LINEAR CYL. DRIVE	1	
IC3501	-	AN3361SB	IC BIPOLAR LINEAR HEAD AMP	1	
20001 6222	Ĺ	ED 100577147711	RESISTORS	-	
コンドロコークをハウ	_	ERJ6GEYJ471V	MGF CHIP 1/10W 470	3	
	1				
R2604	-	ERDS2TJ1R0	1 1 2	1	
R2604 R2605		ERDS2TJ1R2	1. 2	. 1	
R2601-2603 R2604 R2605 R2606 R3501				1	

(E53, E54)

		Part No.	Part Name & Description	\perp	Pcs/ Set	Remarks
R3502-3505	_	ERJ6GEYJ560V		6	4	
3506, 3507	_	ERJ6GEYJ561V	MGF CHIP 1/10W 50	-	2	: 4 960
R3508		ERJ6GEYJ100V			81	
				_	34	SEE A
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rances a l'internation	1	1974	35 t
		A61 1	CAPACITORS		74°-7.	5.4
2601-2603		ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	1	3	34
22604-2607		ECUV1E104KBN	C CHIP CONTROL 25V 0.	1	4	John J&C
2608, 2609	-	ECUV1E104ZFN		1	2	ynys a e e y
	Н	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.1	-+	1	
C2610	-			-	_	
C2611	Ш	ECUV1E223KBN	C CHIP 25V 0.00	-	1	
22612		ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	-	. 1	100
C3504		ECUV1H103ZFN	C CHIP +80%-20% 50V 0.)1	ា	, 1993
C3505		ECEA1CKA470	ELECTROLYTIC 16V	17	1	Y 10 5 10
23506		ECUV1E104ZFN	C CHIP +80%-20% 25V 0	1	1	\$25
23507		ECUV1H103KBN	C CHIP 50V 0.1	11	া	erenga eren
C3508		ECUV1C224ZFN	C CHIP +80%-20% 16V 0.1	-	1	gg a synt
C3511, 3512	_	ECUV1E104ZFN		1	2	Sej tak
				_	1	5-12
C3513	_	LOOTTOLLTE	C CHIP +80%-20% 16V 0.1			70
C3519		ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	-	1	
C3520		ECUV1C224ZFN	C CHIP +80%-20% 16V 0.	22	1	
C3524		ECUV1C224ZFN	C CHIP +80%-20% 16V 0.1	22	1	
C3525		ECUV1E104ZFN		1	1:	
C3528	\vdash	ECUV1E104ZFN		1	-01-2	N.A. Comment
C3529	\vdash	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.1	-	1	794 A
C3532	ļ	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.		1	
C3533	Ш	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.	11	1	
		120	ng sagan samprede '		1	
	П			T	12.50	4.3 V
			COILS	7	(K) }	- 31 ·
L3501	\vdash	ELESN101KA		00	1	
L3301	-	ELEGITIONA	1,	~		
				_		
			. In the primer and the just	_		
			PIN HEADERS	_	- 1	
P3501		VJSS0648	2:	2P	1	
				\neg	41.0	r a i
	-			-+		
			TV MAIN C.B.A.	-+		
	200		I Y IMMIR C.D.M.			
			/ A D O D \	-+		
			(A,B,C,D)	1		
			(A,B,C,D) e le ce estres e le ce	1		14
						75 . KT#+
IC301	⚠	LA7621	100 BM - 1 1990	/A	1	W
		LA7621	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRO	-	_	178
IC301 IC451 (E54)			INTEGRATED CIRCUITS	-	1	178
			INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRO	-	_	178 - 178 -
			INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRON IC BIPOLAR LINEAR VERTICAL ON	-	1	1944 S. 1341
		LA7835	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRO	-	1	
IC451 (E54)			INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRON IC BIPOLAR LINEAR VERTICAL ON	-	1	1944 S. 1341
1C451 (E54) 0006		LA7835	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRON IC BIPOLAR LINEAR VERTICAL ON	-	1 25 a 250:	1944 S. 1341
1C451 (E54) 0006 0309, 310		2SC1684(R) 2SB641(Q)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS	-	1 1 2	1944 S. 1341
0006 0309, 310 0501		2SC1684 (R) 2SB641 (0) 2SC1473A (0)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRON IC BIPOLAR LINEAR VERTICAL ON	-	1 1 2	1944 S. 1341
0006 0309, 310 0501 0505, 506		2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRON IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS	JT	1 2 1 2	130 (130) 14 (4) (143) Res
0006 0309, 310 0501 0505, 506 0507		2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS	JT	1 1 2 1 2	134 (5)
0006 0309, 310 0501 0505, 506 0507.8	A	2SC1684 (R) 2SB641 (O) 2SC1473A (Q) 2SB641 (Q) 2SB636 (Q) 2SD636 (Q)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHRON IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS	JT	1 2 1 2	100 (100 (100 (100 (100 (100 (100 (100
0006 0309, 310 0501 0505, 506	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS	JT	1 1 2 1 2	134 (5)
0006 0309, 310 0501 0505, 506 0507.3 0510	A	2SC1684 (R) 2SB641 (O) 2SC1473A (Q) 2SB641 (Q) 2SB636 (Q) 2SD636 (Q)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS	JT	1 2 1 2	134 (5)
0006 0309, 310 0501 0505, 506 0507.3 0510	A	2SC1684 (R) 2SB641 (O) 2SC1473A (Q) 2SB641 (Q) 2SB636 (Q) 2SD636 (Q)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS	JT	1 2 1 2	134 (5)
0006 0309, 310 0501 0505, 506 0507.3 0510	A	2SC1684 (R) 2SB641 (O) 2SC1473A (Q) 2SB641 (Q) 2SB636 (Q) 2SD636 (Q)	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS	JT	1 2 1 2	134 (5)
0006 0309, 310 0501 0505, 506 0507.4 0510 9 0551 (E53)	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A SA	JT	1 2000 1 2 1 2 1 2 2 1 2 0:11	10 (1) (1) (1) (1) (1) (1) (1) (1
0006 0309, 310 0505, 506 0507.6 0510 0551 (E53)	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SB636 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A S S STATE OF STAT	JT	1 2 1 2 1 2 (1) (1)	10 - 1
0006 0309, 310 0505, 506 0507.3 0510 0551 (E53)	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A 5 0 35 0 A 5 0 35 0 DIODES	S A (1 2 1 2 2 3 1 1 1	(1988年 - 1987年) - 1987年 - 19
1C451 (E54) 0006 0309, 310 0501 0505, 506 0507 05510 0551 (E53) D013 D003 D003 D004 D003 D004 D005 D003 D004 D005 D003 D004 D005 D005 D005 D005 D005 D005 D005	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD535 (0) 2SD1555LBMTV MA165 MA4082-M	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A A A A A A A A A A A A A A A A A A A	JT J	1 2 1 2 2 11 2 2 11 1 1 1 1 1 2 1 1 2 1	(1988年 - 1987年) 日本名 (1989年) 日本名 (1987年) 日本名 (1987年) 日本名 (1987年)
0006 0309, 310 0501 0505, 506 0507.3 0510	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A A A A A A A A A A A A A A A A A A A	JT J	1 2 1 2 2 (2)1 (3)1 1 1 (3)2 (4)1 (4)2 (4)2 (4)3 (4)3 (4)3 (4)3 (4)3 (4)3 (4)3 (4)3	10 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1C451 (E54) 0006 0309, 310 0501 0505, 506 0507 05510 0551 (E53) D013 D003 D003 D004 D003 D004 D005 D003 D004 D005 D003 D004 D005 D005 D005 D005 D005 D005 D005	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD535 (0) 2SD1555LBMTV MA165 MA4082-M	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A A A A A A A A A A A A A A A A A A A	JT J	1 2 1 2 2 11 2 2 11 1 1 1 1 1 2 1 1 2 1	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
0006 0309, 310 0501 0505, 506 0507 0510 0551 (E53) 0051 (E53)	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB636 (0) 2SD636 (0) 2SD555LBMTV MA165 MA4082-M MA165 EM1ZV	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A A A A A A A A A A A A A A A A A A A	JT	1 2 1 2 1 2 1 1 1 1 1 2 2 1 1 1 2 1	10 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0006 0309, 310 0501 0505, 506 0507 0510 0510 0510 0510 0510 0510 0510	A	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA165 MA165 EM12V MA4082-H	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A A A A A A A A A A A A A A A A A A A	2V	1	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0006 0309, 310 0501 0505, 506 0507 0510 0510 0510 0510 0510 0510 0510	A.	LA7835 2SC1684 (R) 2S9641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA4082-M MA4082-H ER843-04V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A A A A A A A A A A A A A A A A A A A	2V	1 2 1 2 1 2 1 1 1 1 1 2 2 1 1 1 2 1	(1948年 1947年 194
0006 0309, 310 0505, 506 0507, 0510 0551 (E53) 0510 0551 (E53) 0510 0551 (E53)	A.	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A 5 955 DIODES ZENER A 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2V	1	10 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0006 0309, 310 0505, 506 0507, 0510 0551 (E53) 0510 0551 (E53) 0510 0551 (E53)	A.	LA7835 2SC1684 (R) 2S9641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA4082-M MA4082-H ER843-04V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A SA DASS DIODES ZENER A SA DASS ZENER A SA DASS A SA D	JT	1	(1948年 1947年 194
1C451 (E54) 0006 0309, 310 0501 0507, 0507, 0510 0551 (E53) D013 D302, 303 D304 D308 D401 D501 D501 D503	A.	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SB641 (0) 2SD636 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A SA DASS DIODES ZENER A SA DASS ZENER A SA DASS A SA D	2V	1	10 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0006 0309, 310 0501 0505, 506 0507 0551 (E53) 0551 (E53) 0551 (E53) 0551 (E53) 0551 (E53) 0551 (E53) 0551 (E53)	A.	2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM1ZV MA4082-H ERB43-04V OR ES1V MA165	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OF TRANSISTORS A SA DASS DIODES ZENER A SA DASS ZENER A SA DASS A SA D	JT	1	10 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0006 0309, 310 0501 0505, 506 0507 0501 0501 0501 0501 0501 0501 0501	Δ Δ Δ	2SC1684 (R) 2SB641 (Q) 2SB641 (Q) 2SD636 (Q) 2SD636 (Q) 2SD1555LBMTV MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ESIV MA165 MA4200-H MA165	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A BANGER AND A BANGER DIODES ZENER BANGER BANGER ANGER ZENER BANGER 2V	1 2 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 - 8	
0006 0309, 310 0501 0505, 506 0507 0551 (E53) 0551 (E53) 0551 (E53) 0551 (E53) 0551 (E53)	Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V MA165 MA4200-H MA165 MA4200-H MA165 MA4075-HTAKT	INTEGRATED CIR CUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS DIODES ZENER B. J.	2V	1	10 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0006 0309, 310 0501 0505, 506 0507 0551 (E53) D013 0302, 303 0304 0304 0501 0501 0501 0501 0501 0501 0501 05	A A A	LA7835 2SC1684 (R) 2S9641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA4082-M MA4082-H ERB43-04V OR ES1V MA165 MA4090-H MA165 MA4075-HTAKT MA165	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A BANGER AND A BANGER DIODES ZENER BANGER BANGER ANGER ZENER BANGER 2V	1	10 - 8	
0006 0309, 310 0501 0505, 506 0507 0551 (E53) D013 0302, 303 0304 0304 0501 0501 0501 0501 0501 0501 0501 05	Δ Δ Δ	2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM1ZV MA4082-H ER843-04V OR ESIV MA165 MA4200-H MA165 MA4200-H MA165 MA4075-HTAKT MA165 ER843-04V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A S S S S S S S S S S S S S S S S S S	2V	1	10 - 8
1C451 (E54) 0006 0309, 310 0501 0505, 506 0507 0551 (E53) D013 D002, 303 D304 D308	Δ Δ Δ	2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM1ZV MA4082-H ER843-04V OR ESIV MA165 MA4200-H MA165 MA4200-H MA165 MA4075-HTAKT MA165 ER843-04V	INTEGRATED CIR CUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS DIODES ZENER B. J.	2V	1	10 - 8
1C451 (E54) 0006 0309, 310 0501 0505, 506 0507 0510 0551 (E53) D013 D302, 303 D304 D308 D401 D501 D503 D506 D507 D508 D507 D508 D510 D510	Δ Δ Δ	2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM1ZV MA4082-H ER843-04V OR ESIV MA165 MA4200-H MA165 MA4200-H MA165 MA4075-HTAKT MA165 ER843-04V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A S S S S S S S S S S S S S S S S S S	2V	1	10 - 8
0006 0309, 310 0501 0505, 506 0507 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3) 0551 (ES3)	Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ESIV MA4075-HTAKT MA165 ERB43-04V OR ESIV MA167	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A A A A A A A A A A A A A A A A A A A	2V	1	100 8 100 Acc
0006 0309, 310 0501 0505, 506 0507 0551 0505 0551 0551 0551 0551 0551	Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (Q) 2SC1473A (Q) 2SD636 (Q) 2SD636 (Q) 2SD1555LBMTV MA165 MA165 MA165 MA165 EM12V MA4082-H ERB43-04V OR ESIV MA165 MA4075-HTAKT MA165 ERB43-04V OR ESIV MA165 ERB43-04V OR ESIV MA165 ERB43-04V OR ESIV MA165 ERB43-04V OR ESIV	INTEGRATED CIR CUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS DIODES ZENER	2V	1	(1978年 日本) 1978年 日本) 19
0006 0309, 310 0501 0505, 506 0507 0551 (E53) D013 D0304 D3004 D3008 D401 D501 D503 D506 D507 D508 D510 D514 D553 D554, 555	Δ Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V MA4075-HTAKT MA165 ERB43-04V OR ES1V MA165 CRB43-04V OR ES1V MA167 CRB43-04V OR ES1V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A A A A A A A A A A A A A A A A A A A	2V	1	100 8 100 Acc
0006 0309, 310 0501 0505, 506 0507 0551 (E53) D013 D0304 D3004 D3008 D401 D501 D503 D506 D507 D508 D510 D514 D553 D554, 555	Δ Δ Δ Δ Δ	2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V MA165 MA4075-HTAKT MA165 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V MA167 ERB43-04V OR ES1V ERB43-04V	INTEGRATED CIR CUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS DIODES ZENER	2V	1	100 8 100 Acc
10451 (E54) 0006 0309, 310 0501 0505, 506 0507 0551 (E53) 0551 (E53) 0501 0501 0501 0501 0501 0501 0501 05	Δ Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V MA4075-HTAKT MA165 ERB43-04V OR ES1V MA165 CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A SOLUTION OF THE CONTROL OF THE	2V	1	100 8 100 Acc
1C451 (E54) 0006 0309, 310 0501 0505, 506 05507 0551 (E53) D013 D022, 303 D304 D308 D401 D501 D501 D506 D507 D508 D501 D510 D514 D553 D554, 555 D558	Δ Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (0) 2SC1473A (0) 2SD636 (0) 2SD636 (0) 2SD1555LBMTV MA165 MA165 MA165 MA4082-M MA165 EM12V MA4082-H ERB43-04V OR ES1V MA4075-HTAKT MA165 ERB43-04V OR ES1V MA165 CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V OR ES1V CRB43-04V	INTEGRATED CIR CUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS DIODES ZENER	2V	1	100 8 100 Acc
10451 (E54) 10006 10309, 310 10505, 506 10507 10505, 506 10507 105051 (E53) 10507 105051 (E53) 10507 105051 (E53) 10506 10507 10506 10507 10508 10508 10509 105	Δ Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM1ZV MA4082-H ERB43-04V OR ESIV MA165 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A SOLUTION OF THE CONTROL OF THE	2V	1	100 8 100 Acc
0006 0309, 310 0501 0505, 506 0507 0551 (E53) D013 0302, 303 0304 0304 0501 0501 0501 0501 0501 0501 0501 05	Δ Δ Δ Δ Δ	LA7835 2SC1684 (R) 2SB641 (O) 2SC1473A (O) 2SD636 (O) 2SD636 (O) 2SD1555LBMTV MA165 MA165 MA4082-M MA165 EM1ZV MA4082-H ERB43-04V OR ESIV MA165 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV MA167 ERB43-04V OR ESIV	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROI IC BIPOLAR LINEAR VERTICAL OI TRANSISTORS A SOLUTION OF THE CONTROL OF THE	2V	1	10 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

Ref. No.	1	Part No.	Part Name & Description	Pcs/ Set	Remarks
	+-		RESISTORS	-	
R023	T	ERDS2TJ122	1. 2K	* .10	344 345
R024	1	ERDS2TJ103	10K	1.1	M9) 11
R301	╅	ERDS2TJ333	33K	1.0	202
R302	1	ERDS2TJ104	100K	1	CRET THE
R304	1	ERDS2TJ393	39K	1	5774
R305	T	ERDS2TJ104	100K	1.158	ygut gart
R306	t	ERDS2TJ392	3. 9K	156	
R307	1-	ERDS2TJ183	18K	5114	3464
R310	+	ERDS2TJ122	1. 2K	60 1 -	
R311	1	ERDS2TJ393	39K	1	
R314	+-	ERDS2TJ473	47K	1	y-1s
R316	+	ERDS2TJ392	3. 9K		or a linear
R317	+	ERDS2TJ153	15K	ill.	963 .369
R318	+	ERDS2TJ104	100K	1111	15.
R320	+	ERDS2TJ392	3. 9K	1	387 124
R324	╅╾	EVND8AA03B14	VARIABLE 10K	1.	194E
R325	+-	EVND8AA03B13	VARIABLE 1K	1	ve -
R327	+-	ERDS2TJ103	10K	11.0	
R333	+	ERDS2TJ182	1,8K	35.4 1 5C	678 A-
R335	+	ERDS2TJ821	820	4.714	
R336	╁╴	ERDS2TJ152	1, 5K	1	Table 1
R338	+	ERDS2TJ471	470	1	233
R342	╁╌	ERDS2TJ472	4, 7K	1	20 1
R344	+-	ERDS2TJ472	4.7K	5.12	<u> </u>
R345	+	ERDS2TJ271	4.7K	5 1 5	Mag Tida Mag Tida
R345 R349	+	ERDS2TJ103	10K	1. 1.4 1. 1.5	16.5 (16.66) 16.55 (16.66)
	+				
R394, 395 R396	+	ERDS2TJ103 ERDS2TJ104	10K	1	3491 1 344 344 1 355
	+-				V8141
R401	+-	ERDS2TJ222	2. 2K	1	
R402	+-	ERDS2TJ333 ERDS2TJ273	33K		
R409	-		271	1	ļ
R410	+	EVND8AA03B54	THE TOTAL	1	1000
R411	+-	ERDS2TJ223	22K	1	
R413	+	ERDS2TJ272	2. 7K	1	
R414	\triangle	ERDS1FJ2R2P	1/2W 2.2	1	[1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	△	OR ERDS1FPJ2R2V	1/2W 2.2	10.00	
R415	+	ERDS2TJ393	39K	1	
R416	4	ERDS2TJ472	4.7K	1	<u> </u>
R417	4	ERDS2TJ561	560		945 · 346
R418	4.	ERDS2TJ474	470K	1	(A) (1) (A)
R422	▲	ERD25FJ101P	100	-	03 4.3
	<u> </u>	OR ERD25FPJ101V	100		W. 681
R425	4	ERDS2TJ564	1 25510 (61 560K		ga2.1 4/20.1.
R427	1	ERDS2TJ1R5	15		(5), 1 3 a
R441	_	ERDS2TJ102	AST MASSE SIK	_	(08) N
R443	┸	ERDS2TJ153	79(1337,09) 15K	្រាង	
R445		ERDS2TJ101	#TY XMT04:11 100	0.11 a	\$131 × 80
R447	1_	ERDS2TJ333	71.00773.51 33K	38 1	[P19] A
R448	1_	ERDS2TJ684	680K		
R501		ERDS2TJ331	330	3. 1 .	del 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
R502	<u> </u>	ERDS2TJ332		3.4 £	
R503	$ \Phi $	ERD25FJ681P		34 1 /	
	Δ	OR ERD25FPJ681V			R0[3].1
R504	L	ERDS2TJ153		WAR	90.75
R505	Δ	ERDS1FJ221P		18 1 13	POLES
	$ \Lambda$	OR ERDS1FPJ221V	JEE /081091/2W 220		
R506	\perp	ERDS2TJ222		38 1 3	(8) (6)
R507	Φ	ER0S2TKF1502	METAL FILM +-1% 15K	গ্ৰেছ	52 SEC.
		OR KROS2TKF1502		DHIS.	11.4 distri
R508	Δ	ERD25FJ100P	: FLETTROSTT 10	294 1 A	D3: 1080
	Δ	OR ERD25FPJ100V	r (10 mg/mg/mg) 10	11.75	kudi 3855 y
R509	Δ	ER0S2TKF2372	METAL FILM +-1% 23.7K	101 s	97! 70E:
	Δ	OR KROS2TKF2372	METAL FILM +-1% MARKO 23,97K	的年代的	XX 1475
R511		ERG12SJ273P		KM19	
R512	T	ERDS2TJ183		a19	
R513	1	ERDS2TJ562		's 1 %	
R516	Δ	ERG3ANJ472H	METAL OXIDE 3W 4.7K	36 1 0	Ç
R518		ERG3ANJ472H		H8 1 %	
R519	1	ERDS2TJ154		G. 1 %	5F 3FC
R521	T	ERDS2TJ101			
R522	T	EROS2TJ103		3910	
R523	†	ERDS2TJ333		1071-6	
R524	+-	ERDS2TJ223		e 13	
R525	T	ERDS2TJ822		. (LV)	
R526	+	ERDS2TJ155		GM W	
R527	+	ERDS2TJ272		- 1	
R530	1	ERG2SJU471V		38 1 3	
	_			aanere Siid ee	1.7
			matria onto: Att 410	100 111	i i
R536	142	ERDS2TJ183	18K	er 🕇 🖂	7-1 6

(E8, E9, E41, E47, E48, E49, E50, E54, E57, E59, E60, E67, E70)

						(E8, E9, E41,	, E4	7, E48, E49, E50, E54, E	57, E59, E60, E67, E70)		
Ref. No.		Part No.	Part Name & Description	Pcs/	Remarks	Ref. No.		Part No.	Part Name & Description	Pcs/	Remarks
	L			Set	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		L			Set	
R537	L	ERDS2TJ821	82	_			Δ		POLYESTER +-5% 1250V 0.0056		
R545		ERDS2TJ680		8 1		C558	Ļ	ECEA1EU101	ELECTROLYTIC 25V 100	1	
R551		ERDS2TJ103	10	-		C560	4		ELECTROLYTIC 200V 10	1	
R552	-	ERDS2TJ273	27			C561	A	OR ECEA2DU100E ECEA2CU2R2B	ELECTROLYTIC 200V 10 ELECTROLYTIC 160V 2. 2	1	
R553 R554	H	ERDS2TJ102 ERDS2TJ123	12			C601-603	14	VCYSARH391KB	CERAMIC 50V 390P	3	
R555		ERDS2TJ154	150			C605	╁	ECOM1H104KV	POLYESTER 50V 0.1	1	
R556	-	ERDS2TJ823	82			C606	+	ECOM1H153KV	POLYESTER 50V 0.015	1	
R558	Δ	ERG2SJU471V	METAL OXIDE 2W 47			C607, 608	T	ECEA1HU2R2	ELECTROLYTIC 50V 2.2	2	
	-	OR ERG2SJ471H	METAL OXIDE 2W 47	0		C609	1	ECCW1H330JC5	CERAMIC +-5% 50V 33P	1	
R601-603		ERDS2TJ331	33	0 3		C610		ECKW1H103ZF5	CERAMIC +80%-20% 50V 0.01	1	
R604		ERDS2TJ334	330	K 1		C611		ECEA1HU2R2	ELECTROLYTIC 50V 2.2	1	
R605		ERDS2TJ564	560	K 1		C612	Г	ECEA1EU4R7	ELECTROLYTIC 25V 4.7	1	
R607		ERDS2TJ152	1.5	K 1		C614		ECCW1H560JC5	CERAMIC +-5% 50V 56P	1	
R608		ERDS2TJ102	1			C615	_	ECCW1H150JC5	CERAMIC +-5% 50V 15P	1	
R609	_	ERDS2TJ222	2. 2			C808	Δ	 	ELECTROLYTIC 180V 33	1	
R610	-	ERDS2TJ102	1			C810	A	 	CERAMIC +-20% 125V 0.0033	1	
R614	-	ERDS2TJ222	2, 2			ļ	1		CERAMIC +-20% 125V 0.0033		<u> </u>
R621	-	ERDS2TJ273	VARTABLE 20			-	₽	OR VCKS0009CF	CERAMIC +-20% 125V 0.0033		
R622 R623	<u> </u>	EVND8AA03B24 ERDS2TJ183	VARTABLE 20			 	╀				
R624	-	ERDS2TJ273	27			<u> </u>	H		COILS		
R625		ERDS2TJ392	3. 9	_		L302	-	ELT10Z3C3		1	
R626	┢	ERDS2TJ393	39			L303	\vdash	VLOSH02R101K	100	i	
R627	-	ERDS2TJ332	3. 3		——	L601	\vdash	VLOSH02R100K	10	1	
R628	t-	ERDS2TJ223	22				T	1	, ,		
R629		ERDS2TJ273	27				Г				
R630	Г	ERDS2TJ102	1				Γ		CRYSTAL OSCILLATOR		
R631		ERDS2TJ392	3. 9	K 1		X501		CSB503F5		1	
						X601	L	TSS816M		1	
	ļ						_				
	<u> </u>		CAPACITORS			ļ	1				
C301		ECEA1HU3R3	ELECTROLYTIC 50V 3.				ļ		PIN HEADERS		
C311	-	ECEA1EU4R7	ELECTROLYTIC 25V 4.			PK1	┼	VJPS0275	5P	1	
C313	-	ECEA1HU010 ECEA1CU100	ELECTROLYTIC 50V ELECTROLYTIC 16V 1	1 1 0 1	 	PK2 PK6	┼-	VJPS0177 VJPS0268	7P: 2P	1	
C314 C315	-	VCYSARH220JC	ELECTROLYTIC 16V 1 CERAMIC +-5% 50V 22		<u> </u>	FKO	┝	VJF30208	ZP		
C316	-	VCYSARH150JC	CERAMIC +-5% 50V 15		<u></u>		╁╌				
C401	┢	ECEA1HGE1R5	ELECTROLYTIC 50V 1.				╁		SWITCHES		
C402	-	ECEA1CU471	ELECTROLYTIC 16V 47			SW301	\vdash	EVQRBAL10	SERVICE SWITCH	1	
C406	\vdash	ECKW1H122KB5	CERAMIC 50V 0.001	2 1							
C407	İΤ	ECKW1H561KB5	CERAMIC 50V 560	P 1			Г				
C408		ECEA1HGE010	ELECTROLYTIC 50V	1 1					TRANSFORMER		
C409		ECEA1EU101	ELECTROLYTIC 25V 10	0 1		T501		TLH15419		1	,
C410		ECKW1H472KB5	CERAMIC 50V 0.004	7 1		T502	Δ	ETE19Z30AY		1	
C411		ECCW1H100DC5	CERAMIC +-10% 50V 10			T551 (E57)	Φ	TLF14767F	FLYBACK TRANSFORMER	1	
C413	L	ECOM1H104KV	POLYESTER 50V 0.				╄				
C414	<u> </u>	ECEA1CU222	ELECTROLYTIC 16V 2.2		<u> </u>		ـ				
C415	₽-	ECEA1HU0R1	ELECTROLYTIC 50V 0.						PRINTED CIRCUIT BOARD ASS	EMB	LY
C416	┝	ECOM1H563KV	POLYESTER 50V 0. 05				+	TAID7010EAA	CDT C B A		
C417 C418	┝	ECEA1HU010 ECEA1EU101	ELECTROLYTIC 50V ELECTROLYTIC 25V 10	1 1		E8 E9		TNP73135AA TNP73136BB	CRT C. B. A. TV POWER C. B. A.	1	AKE1 AKE1
C501	A	ECEATVS100B		0 1			-	THE 13130BB	TV FOHEN C. B. A.	-	AKEI
0301		OR ECEATVUIOOB		0			H				
		OR SCEATVS100B		0			+		MISCELLANEOUS		
	-	OR SCEATVUIOOB		0	 	<u> </u>	T				
C502	۳	ECEA1CU471	ELECTROLYTIC 16V 47		 	E59	T	TMM16480-1	CLAMPER	1	
C503	1	VCYSARH561KB	CERAMIC 50V 560			E41	T	TMM77412	CLAMPER	2	AKEI
C504	Г	ECKW1H103ZF5	CERAMIC +80%-20% 50V 0.0			E47	Γ	TUC76677~1	HEAT SINK PLATE	1	
C506	Ι	ECOM1H473KV	POLYESTER 50V 0.04	7 1		E60	Γ	TUC77619	HEAT SINK PLATE	1	AKEI
C507		ECEA1HU3R3	ELECTROLYTIC 50V 3.	3 1		E70	Γ	VJWS2AW220MM	FLAT CABLE 2P	1	AKEI
C508		ECOM1H103KV	POLYESTER 50V 0.0			E67		VZFS0006	CLAMPER	2	
C509		ECEA1CU470		7 1		E50	Γ	XTV3+10G	TAPPING SCREW 3X10	1	
C510	L	ECKW2H331KB5	CERAMIC 500V 330			E49	L	XYN3+F12S	SCREW WITH WASHER 3X12	1	
C511	L	ECKW1H272KB5	CERAMIC 50V 0. 002			E48	L	XYN3+F6S	SCREW WITH WASHER 3X6	1	
C512	Ĺ	ECCW1H560JC5	CERAMIC +-5% 50V 56			<u></u>	L			I	
C513	1	ECKW1H122KB5	CERAMIC 50V 0, 001	_		ļ	 	ļ	WILL BEAULT OF THE		
C514	-	ECKC3D271KB	CERAMIC 2KV 270			ļ	圆		TV MAIN C.B.A.		
C516	1	ECKW1H103ZF5	CERAMIC +80%-20% 50V 0.0		 	 	┼-	-	(E,F,G,H)		
C520	-	ECKW1H103ZF5	CERAMIC +80%-20% 50V 0. 0	1 1		<u></u>	+-	 	WITCODATES SISSUES	<u> </u>	
C521	+	ECEA1HU010 ECKW1H103ZF5	CERAMIC +80%-20% 50V 0.0		 	IC301	A	LA7621	INTEGRATED CIRCUITS IC BIPOLAR LINEAR LUMA/CHROMA	1	
C522 C523	╀	ECEATHU100	ELECTROLYTIC 50V 1		 	IC451 (E54)	-	LA7835	IC BIPOLAR LINEAR LUMA/CHROMAT	1	
C523	+	ECOF2H364JZA	POLYESTRER 500V 0.3		 	10451 (654)	-	OR LA7835-TA	IC BIPOLAR LINEAR VERTICAL OUT		
C527	╁	ECKW1H562KB5	CERAMIC 50V 0. 05				14	ON ENTOUGHA	TO DITOLAN LINEAR VERTICAL OUT		
C530	+	ECKW1H182KB5	CERAMIC 50V 0.001		 	ļ	\vdash			-+	
C532	1	VCYSARH181KB	CERAMIC 50V 180				t.		TRANSISTORS		
C551	+	ECKW2H221KB5	CERAMIC 500V 220			0006	\vdash	2SC1684 (R)		1	
C552	T	ECEA1CU101	ELECTROLYTIC 16V 10		†1	0309, 310	1	2SB641 (Q)		2	
C554	Δ	ECWH12H562J5	POLYESTER +-5% 1250V 0.005			0312		2SD636 (Q)		1	

(E53)

Ref. No.		Part No.	Part Name & Description		Pcs/ Set	Remarks
0501	\vdash	2SC2653H(C, L)		-+		
Q501	\vdash		W 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1	
Q505, 506	Н		valueled javakro	-	_2	-
Q507	Ш	2SD636(0)		_	11	(0.0) (34K)
Q510		2SD636(Q)	l	- [1111	est as
0513	П	2SB641 (Q)			1	
Q551 (E53)	$\mathbf{\Lambda}$	2SD1555LBMTV		\neg	1	
G001 (E00)	144	ZODIBOOZDIIII	- 44 (5 th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\dashv	·	
	\vdash		245 341 5 30 1865	+		
	ļ				300	8
	Ш		DIODES			25 gr 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
D013		MA165		4	91 r	19.
D302, 303		MA165		\neg	2	
D304	П	MA4082-M	ZENER 8.	2٧	1	
D308	\vdash	MA165	1,30,00,700,00	-	1	
	-			-		STELL TORK
D401	1	EMIZV		-1	C_A 1 60	(S) 1 1786
D501		MA4082-H	ZENER 8.	27	1	
D503	Δ	ERB43-04V			1	
	Δ	OR ES1V	91518913 (1913 to 2019)			
D506		MA165			11:	31 - 1938
D507	T	MA4200-H	ZENER 2	200	Y 1	ond as spen
	\vdash		Zagradyva zakaje	-	v5.10	F11 (A) (1974) (281
D508	H	MA165		-1		- 1841 (compiled -
D510		MA4075-HTAKT	ZENER 7.	5۷	1	
D514	\sqcup	MA165	<u> </u>		1	
D551		RH2FV	ia makamba nambaki		1	
D552	Δ	ERB44-04V		7	1	
180		OR EU2ZV	- 4 (70)	9.3	MIG.	ert y
D553		ERB43-04V	4 8 5 0 8 5 7		1	San Fig. 1
2000 -	-	OR ESTV	2 2 3811	-+		NOT 002 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DEEA	42					
D554	\vdash	MA167				
D555	1	MA185	Established College College		1	
D558	Φ				1	
744	Δ	OR ES1V	378 (11.4)	T		#4.1
D560	Δ	ERB43-04V	1 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	
-340	-	OR ESTV	75.81 48 F GA	\dashv	-1911	gel i i i i i i i
D561	144	MA167			1.	
	-			-1		
D601-603	\vdash	MA165			3	
354			After American Medical Conference of the Confere		ay¥ t	: •
			<u> </u>		1.5	
			RESISTORS			7
R023		ERDS2TJ122	######################################	2K	.: 10	50 - 10 - 10
	1	CDOOGT HAD				AND SOLE
R024		I-KUSZIJIU3	The state of the state	IOK	. 1	
R024	-	ERDS2TJ103	 	OK.	1	
R301		ERDS2TJ563	5	6K	1	
R301 R302		ERDS2TJ563 ERDS2TJ104	5 10	6K 00K	1	
R301 R302 R304		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683	5 10 .2.52.277823 6	66K 00K 68K	1 1	
R301 R302 R304 R305		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124	5 10 24.54 25 78 6	6K 00K	1 1 1	
R301 R302 R304 R305 R306		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683	5 10 	66K 00K 68K	1 1	
R301 R302 R304 R305		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124	5 10 20 20 20 20 6 21 22 20 12 3.	66K 00K 68K 20K	1 1 1	
R301 R302 R304 R305 R306 R307		ERDS2TJJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ392	55 10 (永永年 年 7 年 2 年 2 年 2 年 2 年 2 年 2 年 2 年 2 年	66K 00K 68K 20K 9K	1 1 1 1	
R301 R302 R304 R305 R306 R307 R311		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ393	5 10 点。如果不管部 6 12 12 3。 3。	66K 00K 68K 20K 9K 8K 88K	1 1 1 1 1 1 1 1 1 1 1 1	
R301 R302 R304 R305 R306 R307 R311 R314		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ392 ERDS2TJ393 ERDS2TJ393 ERDS2TJ473	5 10 .A. A. A. A. T. T. T. T. T. T. T. T. T. T. T. T. T.	66K 00K 68K 20K 9K 8K 89K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R301 R302 R304 R305 R306 R307 R311 R314 R315		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ473	55 100 200 200 200 6 200 200 12 3, 200 200 200 200 11 3 3 4	66K 00K 68K 20K 9K 8K 8K 8K 17K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ183 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ392	55 100 200 200 200 6 200 200 200 12 3. 200 200 200 200 1 3 3 4	9K 9K 9K 9K 17K 1K 9K	1 1 1 1 1 1 1 1 1	200 T 200 - 200
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ183 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ102 ERDS2TJ392 ERDS2TJ392 ERDS2TJ153	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 50K 568K 20K 9K 8K 88K 89K 17K 1K 9K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104	5 10 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	56K 56K 56K 9K 9K 88K 89K 117K 9K 15K 15K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ183 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ102 ERDS2TJ392 ERDS2TJ392 ERDS2TJ153	5 10 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	56K 50K 568K 20K 9K 8K 88K 89K 17K 1K 9K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 56K 568K 9K 9K 17K 9K 15K 9K 9K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R318 R320 R324		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ392 ERDS2TJ1393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ392 ERDS2TJ392 ERDS2TJ163 ERDS2TJ164 ERDS2TJ392 EVND8AA03B14	55 10 10 10 10 10 10 10 10 10 10 10 10 10	56K 56K 56K 56K 9K 9K 17K 1K 9K 15K 10K 9K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 100 - 1
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R317 R318 R320 R324 R325		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ1392 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ392 ERDS2TJ392 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104	55 10 3. 3. 3. 3. 3. 44 45 47 47 47 47 47 47 47 47 47 47 47 47 47	56K 56K 50K 58K 9K 8K 88K 17K 1K 9K 15K 50K 9K 10K 11K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 PC) 201 (201 PC) 201 (201 PC) 201 (201 PC) 201 (201 PC) 201 (201 PC) 201 (201 PC) 201 (201 PC)
R301 R302 R304 R305 R306 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ392 ERDS2TJ392 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104	55 100 200 200 200 200 200 200 200 200 200	56K 56K 50K 58K 9K 8K 88K 17K 1K 9K 15K 9K 1 5K 1 0 0 K 1 K 1 K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2017 - 2019 - 2019 2017 - 2019 - 2019 2018 - 2019 - 2019 2018 - 2019 - 2019 2019 - 2019 2019 - 2019 2019 - 2019 2019 - 2019 2019 - 2019 2
R301 R302 R304 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R324 R324 R325 R327 R333		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ392 EVND8A03813 ERDS2TJ104 ERDS2TJ392 EVND8A03813 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 50K 58K 20K 9K 8K 89K 17K 9K 15K 9K 15K 9K 10K 1K 10K 10K 10K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200, 1
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ473 ERDS2TJ472 ERDS2TJ102 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 EVNDBAA03B13 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ182	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 50K 58K 20K 9K 8K 89K 17K 1K 9K 15K 10K 1K 10K 1K 10K 10K 10K 10K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336		ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ183 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ392 EVNDBAA03B14 EVNDBAA03B13 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ102 ERDS2TJ182	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 00K 58K 20K 9K 18K 89K 17K 17K 9K 15K 00K 1K 10K 10K 18K 18K 18K 18K 18K 18K 18K 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(水) (水) (水) (水) (水) (水) (水) (水) (水) (水)
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ473 ERDS2TJ472 ERDS2TJ102 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 EVNDBAA03B13 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ182	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 00K 58K 20K 9K 18K 89K 17K 17K 9K 15K 00K 1K 10K 10K 18K 18K 18K 18K 18K 18K 18K 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(水) (水) (水) (水) (水) (水) (水) (水) (水) (水)
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336		ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ183 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ392 EVNDBAA03B14 EVNDBAA03B13 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ102 ERDS2TJ182	5 10 10 10 10 10 10 10	56K 50K 58K 9K 8K 89K 17K 1K 9K 15K 9K 10K 10K 8K 320 8K 320	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R317 R318 R320 R324 R325 R327 R333 R335 R336 R338 R338		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ392 ERDS2TJ1392 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ100 ERDS2TJ392 ERDS2TJ163 ERDS2TJ104 ERDS2TJ392 EVNDBAA03B14 EVNDBAA03B13 ERDS2TJ103 ERDS2TJ103 ERDS2TJ102 ERDS2TJ182 ERDS2TJ182 ERDS2TJ471 ERDS2TJ471	55 10 10 10 10 10 10 10	56K 500K 56K 90K 9K 18K 99K 17K 17K 15K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R338 R342 R344		ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ124 ERDS2TJ392 ERDS2TJ1392 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ104 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ471 ERDS2TJ472	55 10 10 10 12 12 12 13 13 14 15 15 15 15 15 15 15	56K 500K 58K 20K 9K 8K 89K 17K 17K 9K 15K 50K 9K 10K 10K 10K 10K 17K 17K 17K 17K 17K 17K 17K 17K 17K 17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R338 R338 R342 R344 R345		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ109 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472	10	56K 500K 58K 20K 9K 8K 89K 17K 17K 9K 15K 10K 9K 10K 10K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R324 R325 R328 R324 R325 R338 R344 R344 R344 R344		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ472 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20 2	56K 500K 58K 20K 9K 8K 89K 17K 17K 9K 15K 500K 9K 10K 10K 10K 7K 7K 7K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R338 R342 R344 R344 R345 R349 R372	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ393 ERDS2TJ473 ERDS2TJ392 ERDS2TJ473 ERDS2TJ102 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ171 ERDS2TJ271	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	566K 500K 568K 20K 9K 18K 98K 17K 11K 9K 15K 500K 9K 10K 10K 320 8K 320 8K 7K 7K 7K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R333 R335 R336 R338 R342 R344 R345 R345 R345 R346 R349 R372 R384	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ393 ERDS2TJ473 ERDS2TJ392 ERDS2TJ392 ERDS2TJ392 ERDS2TJ153 ERDS2TJ104 ERDS2TJ392 EVND8AA03B14 EVND8AA03B13 ERDS2TJ103 ERDS2TJ103 ERDS2TJ102 ERDS2TJ103 ERDS2TJ103 ERDS2TJ171 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ473	10 10 10 10 10 10 10 10	566K 500K 568K 20K 9K 88K 17K 1K 9K 15K 10K 10K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R338 R342 R344 R344 R345 R349 R372	<u> </u>	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ393 ERDS2TJ473 ERDS2TJ392 ERDS2TJ473 ERDS2TJ102 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ171 ERDS2TJ271	10 10 10 10 10 10 10 10	566K 500K 568K 20K 9K 88K 17K 1K 9K 15K 10K 10K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R333 R335 R336 R338 R342 R344 R345 R345 R345 R346 R349 R372 R384	<u> </u>	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ393 ERDS2TJ473 ERDS2TJ393 ERDS2TJ392 ERDS2TJ392 ERDS2TJ392 ERDS2TJ163 ERDS2TJ164 ERDS2TJ392 EVND8AA03B14 EVND8AA03B14 EVND8AA03B13 ERDS2TJ103 ERDS2TJ102 ERDS2TJ182 ERDS2TJ182 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ471 ERDS2TJ472	10 10 10 10 10 10 10 10	566K 500K 588K 9K 9K 147K 147K 9K 15K 90K 10K 10K 10K 10K 10K 10K 10K 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R304 R305 R306 R307 R311 R314 R315 R315 R316 R317 R318 R320 R324 R324 R325 R327 R333 R335 R336 R336 R336 R342 R344 R345 R349 R349 R372 R338 R336 R342 R344 R345 R349 R372 R338 R342 R344 R345 R349 R372 R3384 R385	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ193 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ182 ERDS2TJ171 ERDS2TJ472 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473	S	566K 500K 588K 90K 90K 80K 147K 150 100K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R324 R325 R327 R333 R335 R336 R338 R338 R342 R344 R345 R349 R372 R349 R372 R384 R384 R384 R384 R384 R384 R384 R384	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ109 ERDS2TJ109 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ104 ERDS2TJ103	10	56K 50K 58K 20K 9K 18K 17K 15K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R325 R324 R325 R327 R333 R335 R342 R344 R345 R344 R345 R349 R372 R384 R348 R348 R349 R372 R388 R388 R389 R3896 R398 R396 R401	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ164 ERDS2TJ124 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ173 ERDS2TJ173 ERDS2TJ173 ERDS2TJ173 ERDS2TJ173 ERDS2TJ173 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ174 ERDS2TJ173 ERDS2TJ174	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 50K 58K 20K 9K 18K 17K 15K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R342 R344 R345 R349 R372 R384 R385 R394 R395 R394, 395 R396 R401 R402	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ393 ERDS2TJ473 ERDS2TJ470 ERDS2TJ392 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ473	S	56K 50K 56K 50K 9K 18K 9K 147K 15K 9K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R344 R344 R372 R349 R347 R349 R372 R384 R385 R396 R396 R401 R400	<u> </u>	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ124 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ393 ERDS2TJ473 ERDS2TJ100 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ473 ERDS2TJ474	S	56K 50K 56K 50K 9K 18K 9K 147K 15K 9K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R342 R344 R345 R349 R372 R384 R385 R394 R395 R394, 395 R396 R401 R402	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ393 ERDS2TJ473 ERDS2TJ470 ERDS2TJ392 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ473	S	56K 50K 56K 50K 9K 18K 9K 147K 15K 9K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R344 R344 R372 R349 R347 R349 R372 R384 R385 R396 R396 R401 R400	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ124 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ393 ERDS2TJ473 ERDS2TJ100 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ104 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ471 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ473 ERDS2TJ474	S S S S S S S S S S	56K 50K 56K 50K 9K 18K 9K 147K 15K 9K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R320 R324 R325 R327 R333 R335 R336 R336 R340 R372 R344 R345 R348 R348 R372 R349 R372 R349 R372 R372 R372 R373 R372 R373 R373 R373	A	ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ1683 ERDS2TJ124 ERDS2TJ392 ERDS2TJ183 ERDS2TJ183 ERDS2TJ393 ERDS2TJ473 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ109 ERDS2TJ103 ERDS2TJ104 ERDS2TJ333 ERDS2TJ273 EVNDBAA03B15 ERDS2TJ223	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 50K 58K 20K 9K 8K 88K 17K 9K 15K 9K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R338 R338 R342 R344 R345 R349 R377 R384 R384 R385 R386 R388 R386 R388 R3896 R401 R402 R409 R410 R411 R413		ERDS2TJ563 ERDS2TJ104 ERDS2TJ1683 ERDS2TJ104 ERDS2TJ183 ERDS2TJ124 ERDS2TJ183 ERDS2TJ183 ERDS2TJ183 ERDS2TJ473 ERDS2TJ472 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ109 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDSS2TJ272	10	66K 60K 68K 68K 9K 8K 89K 17K 15K 90K 16K 16K 16K 16K 16K 16K 16K 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R320 R324 R325 R327 R333 R335 R336 R336 R340 R372 R344 R345 R348 R348 R372 R349 R372 R349 R372 R372 R372 R373 R372 R373 R373 R373	Δ	ERDS2TJ563 ERDS2TJ104 ERDS2TJ163 ERDS2TJ124 ERDS2TJ124 ERDS2TJ1392 ERDS2TJ1393 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ103 ERDS2TJ104 ERDS2TJ103 ERDS2TJ233 ERDS2TJ233 ERDS2TJ233 ERDS2TJ233 ERDS2TJ233 ERDS2TJ233 ERDS2TJ233 ERDS2TJ223 ERDS2TJ223 ERDSSZTJ223 ERDSSZTJ2223 ERDSSZTJ222	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	66K 60K 68K 68K 68K 68K 68K 68K 68K 17K 17K 15K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 (201 - 201) 201 (2
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R338 R342 R344 R345 R349 R372 R384 R385 R394 R395 R394 R395 R394 R385 R394 R395 R395 R395 R395 R395 R395 R395 R395		ERDS2TJ563 ERDS2TJ104 ERDS2TJ163 ERDS2TJ104 ERDS2TJ124 ERDS2TJ132 ERDS2TJ133 ERDS2TJ133 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272	55 10 20 20 20 20 20 20 20 20 20 20 20 20 20	56K 50K 56K 50K 9K 17K 17K 17K 17K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R333 R334 R342 R344 R372 R348 R349 R349 R340 R341 R341 R411 R411 R413 R414	Δ	ERDS2TJ563 ERDS2TJ104 ERDS2TJ683 ERDS2TJ104 ERDS2TJ683 ERDS2TJ124 ERDS2TJ382 ERDS2TJ183 ERDS2TJ183 ERDS2TJ192 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ102 ERDS2TJ104 ERDS2TJ103 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ104 ERDS2TJ103	55 10 3.3 3.3 3.4 4 4.4 4.4 4.4 4.4 4.4 4.4 4	56K 50K 56K 50K 9K 17K 17K 17K 18K 18K 18K 18K 18K 18K 18K 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201
R301 R302 R304 R305 R306 R307 R311 R314 R315 R316 R317 R318 R320 R324 R325 R327 R333 R335 R336 R338 R342 R344 R345 R349 R372 R384 R385 R394 R395 R394 R395 R394 R385 R394 R395 R395 R395 R395 R395 R395 R395 R395	Δ	ERDS2TJ563 ERDS2TJ104 ERDS2TJ163 ERDS2TJ104 ERDS2TJ124 ERDS2TJ132 ERDS2TJ133 ERDS2TJ133 ERDS2TJ393 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ104 ERDS2TJ392 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ103 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ472 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ473 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ273 ERDS2TJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ272 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ727 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272 ERDSSTJ7272	S S 10 S S 10 S S S S S S S S S	56K 50K 56K 50K 9K 18K 9K 17K 17K 15K 10K 10K 10K 10K 10K 10K 10K 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
R418 R422	-	ERDS2TJ474 ERD25FJ101P		(.≱1:: (.≱1;	
H422					
D.400	<u> </u> ▲	OR ERD25FPJ101V		20417	
R425	-	ERDS2TJ564		601°	
R427	L	ERDS2TJ1R5		2048	103 - 125
R441	L	ERDS2TJ472		08- 1 19	eph n
R443		ERDS2TJ153	15K	33/4	(2) A
R445		ERDS2TJ101		0.40	1933 AT
R447	Т	ERDS2TJ823	82K)	
R448	╁╴	ERDS2TJ474	470K	_	
R501	┼	ERDS2TJ331		1	
	┼-				
R502	١.	ERDS2TJ332		-	
R503	+	ERD25FJ681P		RUNA	
	14	OR ERD25FPJ681V	. Watu 680	97 × 90	10%)
R504	_	ERDS2TJ153	15K	252 1 3	
R505	$ \mathbf{\Psi} $	ERDS1FJ221P	SS 33 1/2W 220	158 1 .8	1081 3 415
	Δ	OR ERDS1FPJ221V	1/2W 220	250.00	7 T
R506	Τ	ERDS2TJ182			Marie Park
R507	$\overline{\Lambda}$				10 l 6 l
11001	+==	OR KROS2TKF1502			
R508	-				
กอบช	_	ERD25FJ100P	174 040% 010		
				803 to	
R509	1		METAL FILM +-1% 31.6K	_	
	$ \Delta$	OR KROS2TKF3162	METAL FILM +-1% 31.6K		877 - 177 177
R511	Δ	ERG12SJ273P	METAL OXIDE 37K	Sept a	rati
R512		ERDS2TJ273	3	1918	1041 1, ES
R513	П	ERDS2TJ562		1.1	
R515	A	ERG2SJU392V		11	
R516		ERG3ANU332H	METAL OXIDE 3W 3.3K		
	₩			· · · · ·	
R519	+-	ERDS2TJ154	<u> </u>	21.	100
R521	L	ERDS2TJ101	28-4 (9.5ac)	- 1	Na 1 di
R522		ERDS2TJ103	10K	4.1	
R523		ERDS2TJ333	33K	1.	- 1. 1.
R524	T	ERDS2TJ223	22K	1	
R525	Т	ERDS2TJ822	8. 2K	- 1	de a
R526	1	ERDS2TJ155	1.5M	-	
R527	Δ		METAL OXIDE 1W 1K		2.5
		OR ERGISJ102P		- Order	
DE20	₩			-	
R528	+	ERDS2TJ272	2.7K	,	
R530	4	ERG2ANJU331V	METAL OXIDE 2W 330		2016.31
	1		METAL OXIDE 17 2W 400 330		
R531	L	ERDS2TJ105	i ika Jindan M		
R536	L	ERDS2TJ183	31 - 146-14 (PA) - 18K	20 1 0	1078 P
R537	L	ERDS2TJ821	**************************************	3819	20 4 7 1040
R539		ERDS2TJ561	560	1147	SEL COL
R543	Г	ERDS2TJ183	18K	4916	
R545	\vdash	ERDS2TJ680		2.43	
R551	+-	ERDS2TJ103		121.71 £	l
R552	\vdash	ERDS2TJ273			
	+				1 1 1 1
R553	\vdash		t to dot - regy at - rectiff		
R554	L	ERDS2TJ103	CE YO ARESTOCKE TO SETOK	_	771 A
R555, 556	L	ERDS2TJ823	** (우리 1 1 82K	2	Visit Telephone
R558	Δ	ERG2ANJU561V	METAL OXIDE 35 3.1.2W 560	াশ্ব	rieja, at.
	Δ	OR ERG2ANJ561H	METAL OXIDE 2W 560	(4.0 ₃	98 A. C
R601-603	T	ERDS2TJ331			ranga 60
R604	1	ERDS2TJ334		-1	Qui : 68-798.
R605	+-	ERDS2TJ564		*10	
R607	 	ERDS2TJ152			
	-		1,011	781 K	
R608	\vdash	ERDS2TJ102		1711	·
R609	1_	ERDS2TJ222		28 F %	1
R610	L	ERDS2TJ102		हर हो है	
R614	L	ERDS2TJ222	10810F1F 2.2K	A (80,5)	10h Y
R621	Г	ERDS2TJ273		6.5 1 5	.33
R622	Т			3414	
R623	\vdash	ERDS2TJ183		11 13	
R624	\vdash	ERDS2TJ273			50 X
	+				
R625	⊢	ERDS2TJ392			
R626	 	ERDS2TJ393	39K	-	801.5
R627	1_	ERDS2TJ392	3.9K		据(1) 1 (表) ·
R628, 629	L	ERDS2TJ273	27K	2	
R630	П	ERDS2TJ102	1K	1	1
R631		ERDS2TJ392	3.9K		
	\vdash		3.5%	8501	(3): P
	+-			19-49	
	-				, S
	_	ļ <u>.</u>	CAPACITORS	25 3	#13.4 M
C301		ECEA1HU3R3	ELECTROLYTIC 50V 3.3	170	.70
C311	LÌ	ECEA1EU4R7	ELECTROLYTIC 25V 4.7	V:188	311
		ECEA1HU010	ELECTROLYTIC 50V 1	3710	0.5
C313	1				

(E8, E9, E35, E20, E41, E42, E43, E47, E49, E50, E57, E60, E61, E67, E70, E73)

Part Part				,		· · · · · · · ·	(20, 20, 200,		, 641, 642, 640, 641, 1	±49, E50, E57, E60, E61, E67, E70, E73)		
CTICATE CAMPACE CAMP	Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
CTICATE CAMPACE CAMP	C315	Н	VCYSARH220JC	CERAMIC +-5% 50V 22P			· · · · · · · · · · · · · · · · · · ·					
SEGURITIES SEG										CRYSTAL OSCILLATOR	-	
CONTROL CONT		\rightarrow			-		X501	\vdash	CSB503F5		1	
COMMISSION COM					1						1	
				CERAMIC 50V 0.0012	1							
COS CELLARS CONTINUE CONT					1			Г				
DESCRIPTION DESCRIPTION					-			\vdash		PIN HEADERS		
Color					1		PK1	1	VJPS0275	5P	1	
DESTINATION DESTINATION PROPERTY PRO		-			<u></u>		<u> </u>	 				
Color								\vdash			1	
Color Colo		H	ECOM1H104KV		1			1			 	
SESTIMBRICH SECRETATIC SON C. 1		_						\vdash				
				1	\leftarrow			T		SWITCHES		
Color		-		POLYESTER 50V 0.056			SW301	1	EVQRBAL10	SERVICE SWITCH	1.	
DESTRUYER DESTRUYER SECTION		-						\vdash				
CORP CONTINUENCES			ELECTROLYTIC 35V 100	1						·		
A				CERAMIC 50V 0.0022	1					TRANSFORMER		
A					1		T501		ETH19Y70AY		1	
		-		ELECTROLYTIC 35V 10			T502	Δ	ETE19Z30AY		1	
A 69 SEZNAVITIOS SEZNAVITIOS 19 70							T551 (E57)			FLYBACK TRANSFORMER	1	AKEI
SEGIOLATION SECTION							,,	Ē				
					1						1	
SOM COMPATION CONTINUENTS CONTINUENT		-						П		PRINTED CIRCUIT BOARD ASS	ЕМВ	LY
								Г			I	
SECHMARS SECRICATIC SPY 3.3 1		\sqcap					E8	lack	TNP73139AA	CRT C. B. A.	1	· AKEI
		П						<u> </u>				
		Н						Ī				
		П			1		ļ	1				
SSTI		Н			<u> </u>		1.	 		MISCELLANEOUS		
SCHINGROUND CONTINUENCES CENNIC -5% SOV 50P 1		\Box			1						-	
SCHING S					1		E41	T	TMM77412	CLAMPER	2	AKEI
\$\(\) \(1				TUC76677-2	HEAT SINK PLATE		
A. DRI EDICISIOREP CEMAIL 2V. V. 0.0015		Λ			1			m	TUC77619			AKEI
A DR TOCKSDISZEN SERVIC 2XV 0.0015											-	
ECHNITION ECHNITION EARLY EARL												
CS21	C516				1						 	
SECAL HUMBON SECATION SECAL CONTICE SOW 1 1										\		
SECRET S		Н										
ESCAL		Н							· · · · · · · · · · · · · · · · · · ·			
CS24												
A DR TOMPINSSQUES POLYSTER +-SX 1250 V 0.0032 1		A									H	
CS25	3321	-										
CS271	C525	-			1			A		CRT C.B.A.	<u> </u>	
CS31		1"						-				
CS31		Н			-			Н		(2,2,0,2)	 	
CSS2		Н								TRANSISTORS		
CSS1		Н		<u> </u>			0351-353		2SC1473 (0, N, C)		3	
SESS		Н			·		100: 000		2001110(211110)		-	
SSS4		╁┤						-			 	
A OR TAC51682P500 POLYESTER +100K-0% 1250V 5800P A OR TOMIN2R08515 POLYESTER +5% 1250V 0.0088 A OR TOMIN2R08515 POLYESTER +5% 1250V 0.0088 A OR TOMIN2R08515 POLYESTER +5% 1250V 0.0088 A OR REGIANDISSH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH WETAL OXIDE 1W 15K A OR VICEOUS HIGH W		A						-		RESISTORS		
A		-		 			R351-353	*	FRG1AN IP153V	 	3	
CSSS CSSS ECEATUUIT							1.00.000			<u> </u>	Ť	
Second A Cocazesione Electrolytic 250v 10 1	C558	۳		L							 	
A OR		┢				-	R354-356				3	
C861		_						\vdash				
C601	C561	1										·
C805 ECOMINISAKY POLYESTER 50V 0.1 1		۳							·			
C806		+						Н				
CRO7, 608 ECEAHU2R2		┥┤										l
C609 CCWI H330.C5 CERAMIC +-5% 50V 33P 1		\vdash						Н				
C610 C611 C612 C62A1HU2R2 ELECTROLYT C SOV 2, 2 1		\vdash						Н				
C611 C612 C624		Н					1000 011	Н		THE STATE OF	ٺ	
C612 C614 CCAPICUART CLECTROLYT C		Н			-		—	Н			-	
C614 ECCW1H560JC5 CERAMIC +-5% 50V 56P 1		Н		 			 	1		CAPACITORS	 	
C615 ECCW1H150JC5 CERAMIC +-5% 50V 15P 1		Н					C351	\vdash	VCYSARHR21VR		1	
C808 ▲ ECEA180V33WE ELECTROLYTIC 180V 33 1 C9354 ECKC3D102KB CERMIC 2KV 0.001 1 C810 A VCKS0009 CERANIC +-20% 125V 0.0033 1 C355 ECKW2H102KB5 CERMIC 500V 0.001 1 C015 A OR VCKS0009C CERANIC +-20% 125V 0.0033 1 C015 ECKW2H102KB5 CERMIC 500V 0.001 1 C015 A OR VCKS0009CF CERANIC +-20% 125V 0.0033 1 C015 C015 <t< td=""><td></td><td>\vdash</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td></t<>		\vdash										
C810 ⚠ VCKS0009 CERAMIC +-20% 125V 0.0033 1 C355 I ECKW2H102KB5 CERAMIC 500V 0.001 1 Column ♠ OR VCKS0009CF CERAMIC +-20% 125V 0.0033 I I COLUMN I <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>Н</td> <td></td> <td></td> <td></td> <td></td>					_			Н				
Å OR VCKS0009C CERANIC +-20% 125V 0.0033 Image: Control of the control of the		4						Н				
A OR VCKS0009CF CERAMIC +-20% 125V 0.0033 Image: Color of the col	U010				 		W35	-	CONTACTIVENDO	000 0.001	 '-	
Coll Coll	ļ 	4						\vdash			 	
Coll Coll		1	ON ACKONOOACL	UERMMIC +-20% 125V U. 0033				H		COLLE		
Coll Coll	ļ	\vdash		 	 		1251	Н	TI TOOLYOOTY	 		
L302 □ ELT1073C3 □ <	 	₩		100110	 		LJOI	-	1L1221K991K	220	1	
L303 VLOSHOZRI OIK 10 1 Image: Control of the con		\vdash	E. T107000	CUILS	-	· · ·	<u> </u>	\vdash			ļ	<u> </u>
L501 ▲ ELH5L423 I		+		<u> </u>	<u> </u>	<u>_</u>		\vdash		NICOTAL ASSESSMENT	—	-
▲ OR TLH15694T ■ E42 TJS1A5081 CRT SOCKET 1 L552 TSC925V 1 E73 TMM77405 CLAMPER 1 L601 VLQSH02R100K 10 1 E43 TXAJT01134 FOCUS/SCREEN COUPLER 1 AKEI				100				\vdash	· ·	MISCELLANEOUS		
L552 1 TSC925V 1 E73 1 MM77405 CLAMPER 1 L601 VLQSH02R100K 10 1 E43 1 TXAJT01134 FOCUS/SCREEN COUPLER 1 AKEI	L501				1			<u> </u>		ant securit		
L601 VLQSH02R100K 10 1 1 E43 TXAJT01134 FOCUS/SCREEN COUPLER 1 AKEI	L	Δ		1	<u> </u>			Н			-	
		\sqcup						Ш		<u> </u>		
	L601		VLQSH02R100K	10	1			_		<u> </u>	_	AKEI
		\perp		<u> </u>	L		E67	L	VZFS0006	CLAMPER	_1	

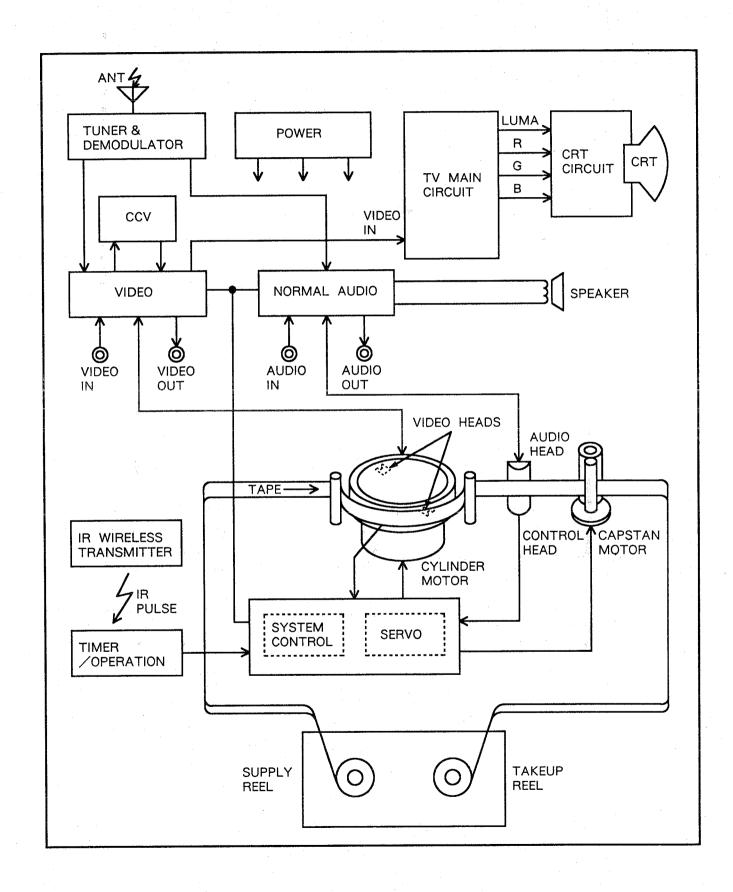
		Part No.	Part Name & Description	Pcs/ Set	Remarks
	lack		CRT C.B.A.	1	
			(E,F,G,H)		
	П				
			TRANSISTORS		
351-353		2SC3063(R, L)		3	
	Н	<u>\</u>			
	H			1	
	Н		RESISTORS		
2051 050		F000 1111 001/			
R351-353	42	ERG2ANJ123H	METAL OXIDE 2W 12K	3	
R354-356	Ш	ERD25TJ272	2. 7K		
R357-359		ERDS2TJ101	100	3	
R360-362		ERDS2TJ181	180	3	
R363		EVND1 AA00B32	VARIABLE 300	1	
R364		ERDS2TJ101	100	1	
R365		EVND1 AA00B32	VARIABLE 300	1	
R366-368		ERDS2TJ821	820	3	
R369-371	_	EVND1 AA00B33	VARIABLE 3K	3	
1000 311			THE THE PARTY OF T	Ť	
	-		<u> </u>		
	-			\vdash	
	_		CAPACITORS	اا	
C351-353		VCYSARH821KB	CERAMIC 50V 820P		
C354		ECKC3D102KB	CERAMIC 2KV 0,001	1	
2355		ECKW2H102KB5	CERAM1C 500V 0.001	1	
· · · · · · · · · · · · · · · · · · ·			1		
	-	<u> </u>	1		
	\vdash		MISCELLANEOUS	+	
	-		MISCELLANEOUS	├	
	\vdash	ļ. <u></u>		1	
E42		TJS1A5050	CRT SOCKET	1	
E73	L	TMM77405	CLAMPER	1	
E43	Γ	TXAJT01134	FOCUS/SCREEN COUPLER	1	AKEI
E67		VZFS0006S	CLAMPER	1	
				 	
		<u> </u>	 	 	
	1		TV DOWER C B A	 	
	▲		TV POWER C.B.A.		
			(A,B,C,D)		
	L			7	
	_		INTEGRATED CIRCUITS		
1C801 (E69)	\wedge	STR30130	IC BIPOLAR LINEAR ERROR	1	
(200)	1		VOLTAGE DET	 	
	╌		TOETHOU DET	 	
	-		<u> </u>		
	-				
	<u> </u>		DIODES		
D008	L,	188119	<u> </u>	1 1	
D801-804	Δ	EM02BMV		4	
	Φ	OR ERC13-08V	·	I - I	
D851	A	ERPZ5B0M050F	THERMISTOR	1	
		OR VRPSFZ5JM050	THERMISTOR	-	
		011 1111 01 230111030	THERMITOTOR	1	
	_		RESISTORS		
R001		ERC12ZGK825C	SOLID +-10% 1/2W 8.2M		
R001		ERC12ZGK825C OR ERC12ZGK825V	 		
	Δ		SOLID +-10% 1/2W 8.2M		
R803	Δ	OR ERC12ZGK825V ERF10ZJ331	SOLID +-10% 1/2W 8.2M SOLID +-10% 1/2W 8.2M W FLMPRF 10W 330	1	
R803	Δ Δ	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P	SOLID	1	
R803 R804	Δ Δ Δ	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER0S1FPJ103V	SOLID +-10% 1/2W 8.2M SOLID +-10% 1/2W 8.2M W FLMPRF 10W 330 1/2W 10K 1/2W 10K	1 1	
R803 R804 R805	Δ Δ Δ	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P	SOLID	1 1	
R803 R804 R805 R806	Δ Δ Δ Δ	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P ERDS2TJ224	SOLID +-10% 1/2W 8.2M	1 1 1 1	
R803 R804 R805 R806	Δ Δ Δ Δ	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P	SOLID	1 1	
R803 R804 R805 R806 R807	Δ Δ Δ Δ	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P ERDS2TJ224	SOLID +-10% 1/2W 8.2M	1 1 1 1	
R803 R804 R805 R806 R807 R808	A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P ER052TJ224 ER014AJ390P ER02ABJP5R6S	SOLID +-10% 1/2W 8.2M	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807	A A A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER014AJ470P ER014AJ470P ER03ZTJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808	A A A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P ER052TJ224 ER014AJ390P ER02ABJP5R6S	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807	A A A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER014AJ470P ER014AJ470P ER03ZTJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807	A A A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER014AJ470P ER014AJ470P ER03ZTJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808	A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P ER014AJ470P ER04AJ470P ER02ZJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R808	A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER014AJ470P ER014AJ470P ER03ZTJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R808	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDS1FPJ103V ER014AJ470P ER014AJ470P ER04AJ470P ER02ZJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R808	A A A A A A A A A A A A A A A A A A A	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER01FPJ103V ER014AJ470P ER024AJ470P ER024AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810	↑ ↑ ↑ ↑ ↑ ↑ ↑	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103V ER0S1FJ103V ER014AJ470P ER03Z1J224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C	SOLID	1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810	A A A A A A A A A A A A A A A A A A A	OR ERC12ZGK825V ERF10ZJ331 EROS1FJ103P OR ERDS1FJ103V ERO14AJ470P ERD32TJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0012	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810	↑ ↑ ↑ ↑ ↑ ↑ ↑	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER0S1FJ103V ER014AJ470P ERDS2TJ224 ER014AJ390P ER02ABJP586S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0012 ECKM2H472PU	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810	↑ ↑ ↑ ↑ ↑ ↑ ↑	OR ERC12ZGK825V ERF10ZJ331 EROS1FJ103P OR ERDS1FJ103V ERO14AJ470P ERD32TJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0012	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER0S1FJ103V ER014AJ470P ERDS2TJ224 ER014AJ390P ER02ABJP586S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0012 ECKM2H472PU	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810 C001, 002 C801-803 C804 C805	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDSFPJ103V ER013AJA70P ER03ZJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C ECKM2H472PU ECKM2H472PU ECKM2H472PE	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810 C001, 002 C801-803 C804 C806	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDSFPJ103V ER014AJ70P ER03Z1J224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C ECKM2H472PU ECKM2H472PU ECKM2H472PE	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810 C001, 002 C801-803 C804 C805	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDSFPJ103V ER013AJA70P ER03ZJ224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C ECKM2H472PU ECKM2H472PU ECKM2H472PE	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810 C001, 002 C801-803 C804 C805	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDSFPJ103V ER014AJ70P ER03Z1J224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C ECKM2H472PU ECKM2H472PU ECKM2H472PE	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810 C001, 002 C801-803 C804 C805	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ER0S1FPJ103V ER014AJ470P ER02AJ470P ER02AJ470P ER02AJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0012 ECKM2H472PU ECKM2H472PU ECEM2H472PE ECET2DR221SW	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R803 R804 R805 R806 R807 R808 R810 C001, 002 C801-803 C804 C305	<u>↑</u>	OR ERC12ZGK825V ERF10ZJ331 ER0S1FJ103P OR ERDSFPJ103V ER014AJ70P ER03Z1J224 ER014AJ390P ER02ABJP5R6S ERF3AKR82 OR KRF3AKR82 VCKS0004 OR VCKS0004C OR VCKS0004C OR VCKS0004C OR VCKS0004C ECKM2H472PU ECKM2H472PU ECKM2H472PE	SOLID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

(E13, E35, E0)3, t	64, E65, E66, E69)		0	<u> </u>
Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
			PIN HEADERS		
P82	_	VJPS0303	3P	1	
	H				
	-		FILE & DROTECTOR	-	
F001	-	XBA1C40NU100	FUSE & PROTECTOR FUSE 125V 4A	1	
7001	4	ADATO40NUTUU	125V 4A		
	Н				
			RELAY		
RL001	Λ	TSE1860-1	RELAY	1	(
	_			Ė	
				<u> </u>	
			MISCELLANEOUS		
E66	L	TUC77616	GROUNDING PLATE	1	AKEI
E63	_	TUX77809	CLAMPER	1	AKEI
E15	L	VJSS0164	FUSE HOLDER	2	
E64	L	XTW3+10J	TAPPING SCREW 3X10	2	
E65	<u> </u>	XYE3+EJ10	SCREW WITH WASHER 3X10	1	
E35	-	XYN3+F10S	SCREW WITH WASHER 3X10	1	
	┝			├	
	•		TV POWER C.B.A.	 	
	-		(E,F,G,H)		
	1		V = 1, 1=1, 1		
	H		INTEGRATED CIRCUITS		
1C801 (E69)	Δ	STR30130	IC BIPOLAR LINEAR ERROR	1	
	Γ		VOLTAGE DET		
	匚		DIODES		
D008	_	188119		1	
D801-804		EM02BMV		4	
	-	OR ERC13-08V			
D851	-	ERPF5B0M050K	THERMISTOR	1	AKEI
	Δ	OR TRPF5B0M050K	THERMISTOR	ļ	
	-				
	-		PECICTORS		
R001	-	ERC12ZGK825C	RESISTORS SOLID +-10% 1/2W 8.2M	 ,-	
KUUT	-	OR ERC12ZGK825V	<u> </u>	1	
R803	-	ERF15ZJ181	SOLID +-10% 1/2W 8.2M W FLMPRF 15W 180	1	
R804		ERDS1FJ822P	1/2W 8.2K	1	
11004		OR ERDS1FPJ822V	1/2W 8.2K		
R805	_	ERQ14AJ470P	FUSE 47	1	
R806	-	ERDS2TJ224	220K	1	
R807	Δ	ERQ14AJ390P	FUSE 39	1	
R808	Δ	ER03CJ5R6H	FUSE 3W 5.6	. 1	
R810	Δ	ERF3AKR82	W FLMPRF +-10% 3W 0.82	. 1	
	Δ	OR KRF3AKR82	W FLMPRF +-10% 3W 0.82		
	<u> </u>		CAPACITORS		
C001	•	ECKCNS223ZV	CERAMIC +80%-20% 125V 0. 022	1	
	-	OR ECKDNS223ZV	CERAMIC +80%-20% 125V 0, 022		
C002		VCKS0004	CERAMIC +80%-20% 125V 0.01	1	
		OR VCKS0004C	CERAMIC +80%-20% 125V 0.01		
	-	OR VCKS0004CF	CERAMIC +80%-20% 125V 0. 01 CERAMIC +80%-20% 125V 0. 01		
C801-803	4	ECKM2H472PE7	CERAMIC +80%-20% 125V 0. 01	3	
C804	-	ECKM2H472PE7	CERAMIC +100%-0% 500V 0.0047	1	
C805	•	ECET2PR471SW	ELECTROLYTIC 180V 470	-	
C806	4	ECEA2EU220	ELECTROLYTIC 250V 22	1	
				- '-	
	Г				
	 		COILS		
L801	Δ	ELF18D650C	65	1	
L802		VLQS7A220M	+-20% 22	1	
	Ĺ				
	Ш		PIN HEADERS		
PB2	_	VJPS0303	3P	1	
	Н				
	-				
	<u></u>	XBA1C40NU100	FUSE & PROTECTOR FUSE 125V 4A	1	
E001			FUSE 125V 4A		i
F001	Δ	XDA1040H0100			
F001	Δ	ADA104010100			
F001	Δ	XDX1040100	RELAY		

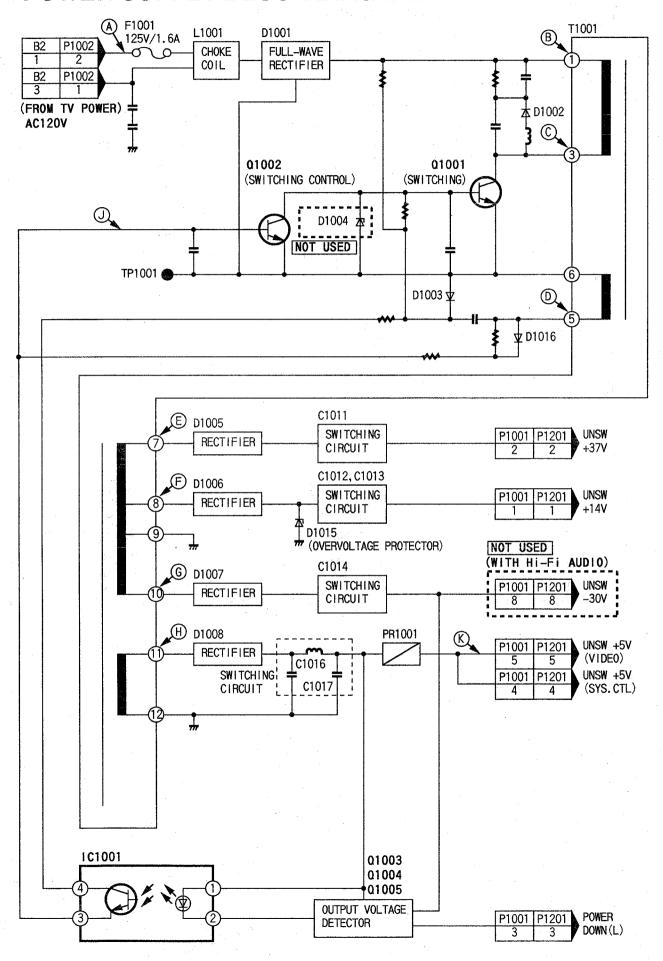
Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		MICOSI I ANTONIO		
		MISCELLANEOUS	++	
E62	TMM77413	CLAMPER	1	AKEI
E66	TUC77603-1	GROUNDING PLATE	1	AKEI
E63	TUX77809	CLAMPER	1	AKEI
E15	VJSS0164	FUSE HOLDER	2	
64	XTW3+10J	TAPPING SCREW 3X10	2	• • • • • • • • • • • • • • • • • • • •
65	XYE3+EJ10	SCREW WITH WASHER 3X10	1	
35	XYN3+F10S	SCREW WITH WASHER 3X10	1	
	ATTACK TOO	OSTALIT BITTIN MORELLY ON TO		
		ELECTRICAL PARTS		
		LOCATED ON CHASSIS	\vdash	
2011 E E 1 / E 27 X	VSSS0129	MODE SELECT SWITCH	1	
SW1551 (E27)			1	
E46	VEKS4798	SAFETY TAB SWITCH UNIT		
E23	VEPS0482A1	FE HEAD C. B. A. UNIT	1	
24	VJBS00949	LOADING MOTOR P. C. B.	1	
25	VJWS7AB107LL	FLAT CABLE 7P	1	
55	VJWS7AN120BB	FLAT CABLE 7P	1	
	(A, B, C, D)			
55	VJWSBAB110BB	FLAT CABLE 11P		
	(E, F, G, H)	·	$\coprod I$	
E56	VJWS7AB110BB	FLAT CABLE 7P	1	
	(A, B, C, D)			
		"E"ITEM NUMBERS IN THE	:	
	<u> </u>	ELECTRICAL PARTS LIST	·	
	+		 	
<u> </u>	VEPS02223A1	MAIN C. B. A.		
	VEPS02223B1	MAIN C. B. A.	+ +	
=1				
1	VEPS02223C1	MAIN C. B. A.	\vdash	
2	VEPS01039A1	POWER SUPPLY ASS'Y		
E3	VEPS07571A1	OPERATION I C. B. A.	L	
=3 .	VEPS07573A1	OPERATION I C. B. A.		
4	VEPS07572A1	OPERATION II C.B.A.		
4	VEPS07574A1	OPERATION II C.B.A.		-
5	VEPS02178A1	CAPSTAN MOTOR DRIVE C. B. A.		
6	VEPS0563CA1	HEAD AMP ASS'Y		
6	VEPS0564CA1	HEAD AMP ASS'Y		
7	TNP71920CC	TV MAIN C. B. A.	1	
E7	TNP71922CC	TV MAIN C. B. A.	1	
			 -	
<u> </u>	TNP73135AA	CRT C. B. A.		·····
E8	TNP73139AA	CRT C. B. A.		
9	TNP731368B	TV POWER C. B. A.		
9	TNP73140BB	TV POWER C. B. A.		
E10	VEPS03125C2	CCV C. B. A.		
E11	VJHS0279	PIN JACK		
E12	VE0S0562	UHF/VHF TUNER/TV DEMODULATOR	L^T	
	T	UNIT		
E13	VGPS2941	ANT TERMINAL PLATE		
13	VGPS2943	ANT TERMINAL PLATE		
14	VSCS1984	SHIELD CASE -TOP		
15	VJSS0164	FUSE HOLDER	1	
16	VSCS2036	SHIELD CASE -BODY	 	
19	SPS-420-2-B	IR WIRELESS RECEIVING DETECTOR	 -	
		V-SUB HEAT SINK	 	
20	TUC77622		 -	
-21	VMXS0583 VEPS0482A1	LED SPACER	 	
	- WERNINGS	FE HEAD C. B. A. UNIT	\vdash	
23				
23 24	VJBS00949	LOADING MOTOR P. C. B.		
23 24 25	VJBS00949 VJWS7AB107LL	FLAT CABLE 7P		
23 24 25 27	VJBS00949 VJWS7AB107LL VSSS0129	FLAT CABLE 7P MODE SELECT SWITCH		
23 24 25 27	VJBS00949 VJWS7AB107LL	FLAT CABLE 7P		
23 24 25 27 29	VJBS00949 VJWS7AB107LL VSSS0129	FLAT CABLE 7P MODE SELECT SWITCH		
E23 E24 E25 E27 E29 E30	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT		
223 224 225 227 229 230 235	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT		
223	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER		
E23	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER		
E23	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN34F10S VWXS0575 TMM77412 TJS1A5050	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET		
E23	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412 TJS1A5050 TJS1A5081	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET CRT SOCKET		
E21 E23 E24 E25 E25 E27 E29 E30 E35 E39 E41 E42 E42	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S XYN3+F10S TMM77412 TJS1A5050 TJS1A5081 TXAJT01134	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET FOCUS/SCREEN COUPLER		
E23 E24 E25 E27 E27 E29 E30 E35 E39 E41 E42 E42 E42 E43 E45	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412 TJS1A5050 TJS1A5081 TXAJT01134 VMTS0035	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET CRT SOCKET FOCUS/SCREEN COUPLER CUSHION		
E23 E24 E25 E27 E29 E30 E30 E31 E31 E42 E42 E42 E43 E45	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412 TJS1A5050 TJS1A5081 TXAJT01134 VMTS0035 VEKS4798	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET CRT SOCKET CRT SOCKET FOCUS/SCREEN COUPLER CUSHION SAFETY TAB SWITCH UNIT		
E23 E24 E25 E27 E29 E30 E35 E35 E41 E42 E42 E442 E445	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412 TJS1A5050 TJS1A5081 TXAJT01134 VMTS0035	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET CRT SOCKET FOCUS/SCREEN COUPLER CUSHION		
223 224 225 227 229 330 335 339 341 442 442 442 443 445 446 447	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412 TJS1A5050 TJS1A5081 TXAJT01134 VMTS0035 VEKS4798	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET CRT SOCKET CRT SOCKET FOCUS/SCREEN COUPLER CUSHION SAFETY TAB SWITCH UNIT		
223 224 225 227 229 330 335 339 41 42 42 442 443 445	VJBS00949 VJWS7AB107LL VSSS0129 VEKS5200 VEKS5201 XYN3+F10S VMXS0575 TMM77412 TJS1A5050 TJS1A5081 TJX1A5081 VWTS0035 VEKS4798 TUC76677-1	FLAT CABLE 7P MODE SELECT SWITCH PHOTO SENSOR UNIT SENSOR LED UNIT SENSOR LED UNIT SCREW WITH WASHER 3X10 LED SPACER CLAMPER CRT SOCKET CRT SOCKET FOCUS/SCREEN COUPLER CUSHION SAFETY TAB SWITCH UNIT HEAT SINK PLATE		

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
E51		VHDS0276	SCREW 3X10		
E52	_	VHDS0319	SCREW 3X12		
E53 E54	-	2SD1555LBMTV	IC DIDOLAD LINEAD VEDTICAL OUT	 	
E54	-	LA7835 LA7835-TA	IC BIPOLAR LINEAR VERTICAL OUT IC BIPOLAR LINEAR VERTICAL OUT		
E55	┢	VJWSBAB110BB	FLAT CABLE 11P	 	
E55	\vdash	VJWS7AN120BB	FLAT CABLE 7P	 	
E56	\vdash	VJWS7AB110BB	FLAT CABLE 7P	†	
E57		TLF14767F	FLYBACK TRANSFORMER	<u> </u>	
E57	T	TLF15624F1	FLYBACK TRANSFORMER		
E59	Г	TMM16480-1	CLAMPER		
E60		TUC77619	HEAT SINK PLATE		
E61		TUC77621	H-SUB HEAT SINK		
E62	L	TMM77413	CLAMPER		
E63	_	TUX77809	CLAMPER	<u> </u>	
E64	_	XTW3+10J	TAPPING SCREW 3X10		:
E65	├	XYE3+EJ10	SCREW WITH WASHER 3X10	ļ	
E66	┼-	TUC77603-1	GROUNDING PLATE	ļ	
E66 E67	\vdash	TUC77616 VZFS0006	GROUNDING PLATE	 	
E67	┝	VZFS0006S	CLAMPER CLAMPER	-	
E68	├	VEKS5221	LUG ASS'Y	├	
E69	-	STR30130	IC BIPOLAR LINEAR ERROR	+	
	+		VOLTAGE DET	ļ	
E70	T	VJWS2AW220MM	FLAT CABLE 2P	 	
E73	1	TMM77405	CLAMPER	T	
E74		VMTS0094	CUSHION		
E78	Γ	VSCS2007	SHIELD CASE -TOP		
E79		VSCS2008	SHIELD CASE -BOTTOM		
E81		VEPS04117A1	AUD10/VIDEO JACK C. B. A.		
	L				
				ļ	
	L				
	L				
	<u> </u>				
	ļ			<u> </u>	
	┞			<u> </u>	
	ļ				
	╀			_	
	┡			<u> </u>	
	╁			├	
	╁			 	
	-			┼	
	╁	·		-	
	\vdash			-	
	╁			 	
	t			 	
	╁			 	
	\vdash			<u> </u>	
	Π			1	
				T-	
	Γ				
	Г				
					<u> </u>
	Ĺ			L	
	Ĺ				
	L				
	L				
	L			L	
	L			<u> </u>	
	<u> </u>				
	-			<u> </u>	
	-			<u>. </u>	ļ
	1			<u> </u>	-
	┞	<u> </u>		ļ	
	├	ļ		<u> </u>	
	┞			L	
	<u> </u>				1.5
	L	1			-
	L.				
	L			ļ	

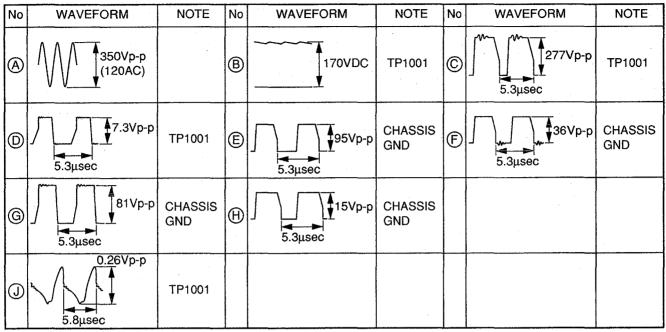
VII. BLOCK DIAGRAMS OVERALL BLOCK DIAGRAM



POWER SUPPLY BLOCK DIAGRAM



WAVEFORM OF POWER SUPPLY STAGE



NOTE: WAVEFORMS MEASURED IN STOP MODE.

POWER SUPPLY CHECKING PROCEDURE 1

SYMPTOM		FLOW OF TROUBLESHOOT—▶								
	CHECK POINT	®	Œ	Ē	G	H				
No Power (Secondary	IF NO.	-		,	V					
circuit)	CHANGE	PR1001		* NOTE1						

^{*} NOTE1: If voltage is not correct, check primary circuit.

^{*} NOTE2: If all voltage is correct, check System Control circuit or adjust Gear phase.

SYMPTOM		FLOW OF TROUBLESHOOT—▶							
	CHECK POINT	A	B	©	(D)	(J)			
No Power (Primary	IF NO.	+			↓				
circuit)	CHANGE	* NOTE1		F1001 Q1001 Q1002	* NOTE2	·			

^{*} NOTE1: Check TV Power Circuit or AC cord.

^{*} NOTE2: Change Q1001, Q1002 and F1001 at the same time.

SYMPTOM		FLOW OF TROUBLESHOOT——►										
	CHECK POINT											
	IF NO.											
	CHANGE								,			

NOTE: Please use blank brackets to note additional information.

POWER SUPPLY CHECKING PROCEDURE 2

(1). SHORT-CIRCUIT AND REPLACEMENT PARTS ON POWER LINE.

	CONDITION OF SHORT-CIRCUIT	DAMAGEABLE PARTS BY SHORT-CIRCUIT
(1)	5V ➡ GND	*PR1001, *D1008, Q1005
(2)	37V ➡ GND	*D1005, *R1010
(3)	14V ➡ GND 12V ➡ GND	D1006, *D1015, Q1201, *Q1202, R1209 D1201, D1202, D1203, D1204, C1012, *PR1203
(4)	-30V ⇒ GND	*R1011, *D1007
(5)	37V ➡ 14V	D1006, *D1015, Q1201, *Q1202 D1201, D1202, D1203, D1204, *PR1203
(6)	-30V → 5V	REPLACE THE ALL OF PARTS OF (1) AND (4)
(7)	14V ➡ 12V	*Q1201, *Q1202, D1201, D1202, D1203, D1204, *PR1203
(8)	37V → POWER DOWN(L)	*Q1005

^{*}NOTE1: When parts are short circuited, supplying the Power for a long time may cause the fuse to blow.

(2). IN CASE OF FUSE(F1001) BLOW.

Replace Parts F1001, Q1001, Q1002, D1001(Very rarely has problems), C1012, D1015. Cause > It may be caused by a short-circuit of 5V or 14V.

(3). JUST AFTER TURNING POWER ON, ABNORMAL NOISE CAN BE HEARD FROM POWER SUPPLY UNIT.

Replace Parts D1015, D1008, D1007, R1011, C1012.

Cause It may be caused by a short-circuit of 5V, -30V, 14V.

In such a condition, supplying the Power for a long time causes the fuse to blow.

^{*}NOTE2: In case of trouble on Power Pack only, no need to check 1200 series parts.

^{*}NOTE3: Parts with * mark are most susceptible to damage in case of short circuit. Please check them first.

WAVEFORM OF VIDEO STAGE

*NOTE: 1. The measurement mode of the waveforms in brackets on this chart is Record and Playback modes with NTSC color bar signal.

2. Please use blank brackets to note additional information.

No	WAVEFORM	NOTE	No	WAVEFORM	NOTE	No	WAVEFORM	NOTE
(A)	1.0Vp-p	REC	B		LINE(H) /TUNER(L)	©	0.38Vp-p	
(D)	2.0Vp-p	REC/P.B	€	2.0Vp-p	REC/P.B	Ē	1Vp-p	REC
\oplus	5Vp-p		(1)	0.21Vp-p	REC (SP/LP	0	0.27Vp-p	P.B
			<u> </u>		/SLP)			
	0.24Vp-p	REC (SP/LP /SLP)		4Vp-p	STILL SP			·
P	"A"	P.B SP "A"= 0.49Vp-p LP "A"=	0	4Vp-p	CUE/REV			
		0.33Vp-p SLP "A"= 0.25Vp-p		5Vp-p	PB (SLP(H))			
				<u></u> 1.2∨p-p 1.2√p-p	PB (SP(L))			
(a)	0.4Vp-p	P.B	Ъ	0.54Vp-p	P.B			
(i)	"A" 1 - m	REC "A"= 0.5Vp-p	0	0.3Vp-p	REC/P.B	(1)	5Vp-p	REC/P.B
	<u>▼ </u>	P.B "A"= 0.6Vp-p		1				·
①	4Vp-p		9	ARTIFICIAL V-SYNC ARTIFICIAL H-SYNC	CUE/REV /SLOW			
			9	5Vp-p	/STILL			

VIDEO CHECKING PROCEDURE

SYMPTOM		FLOW OF TROUBLESHOOT—►							
	CHECK POINT	A	(D)	Œ	TV				
	IF NO.	₽	\			-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
NO PIX	CHANGE	* NOTE1	IC3001 * NOTE2	IC3301 CCV Circuit	* NOTE3				

- * NOTE1: Check Tuner/Demodu or Video In Terminal and signals (B).
- * NOTE2: Check signals EE(H) /VV(M) /Trick(L).
- * NOTE3: Check TV Main Circuit or Video Out Terminal.

· 34	11 May 10 a 1945							A STATE OF THE STA
SYMPTOM								
	CHECK POINT	A	F	P	$oldsymbol{\Theta}$	(1)	Û	HEAD
	IF NO.	₩ ₩		#	4	ļ	\$	
NO REC	CHANGE	* NOTE1	IC30 * NO		IC6001 * NOTE3	HEAD) AMP	UPPER CYLINDER * NOTE4

- * NOTE1: Check Tuner/Demodu or Video In Terminal and signals (B).
- * NOTE2: Check signals (c), EE(H) /VV(M) /Trick(L).
 * NOTE3: Check Cylinder FG/PG signal at pin 47 of IC6001.
- * NOTE4: Try head cleaning.

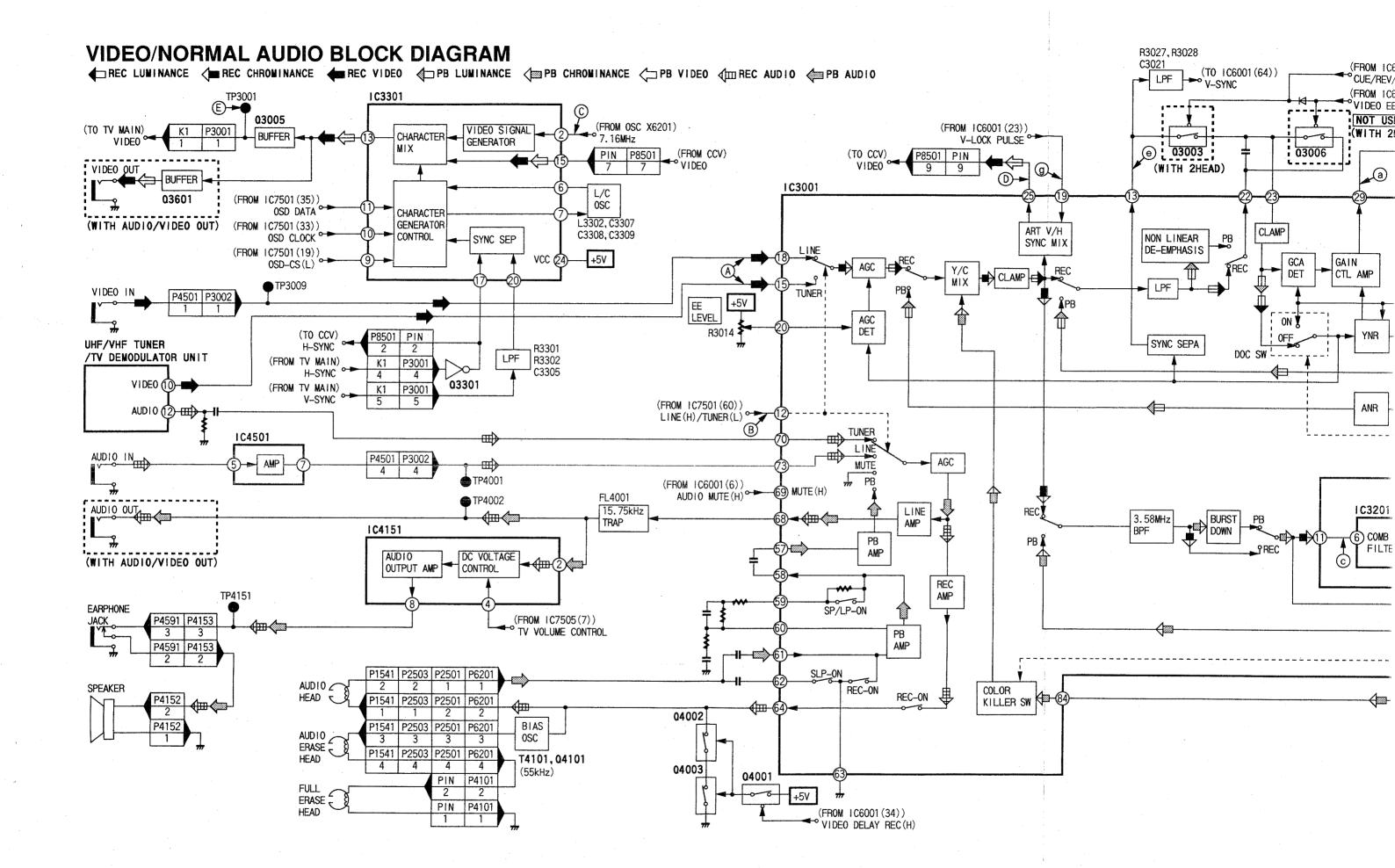
	SYMPTOM		FLOW OF	TROUBLES	SHOOT	-	-		Stage and Stage
		CHECK POINT	P	0	0				
l		IF NO.	•		ŀ				
	NO COLOR	CHANGE	HEAD AMP	IC3	201			10 10 10 10 10 10 10 10 10 10 10 10 10 1	

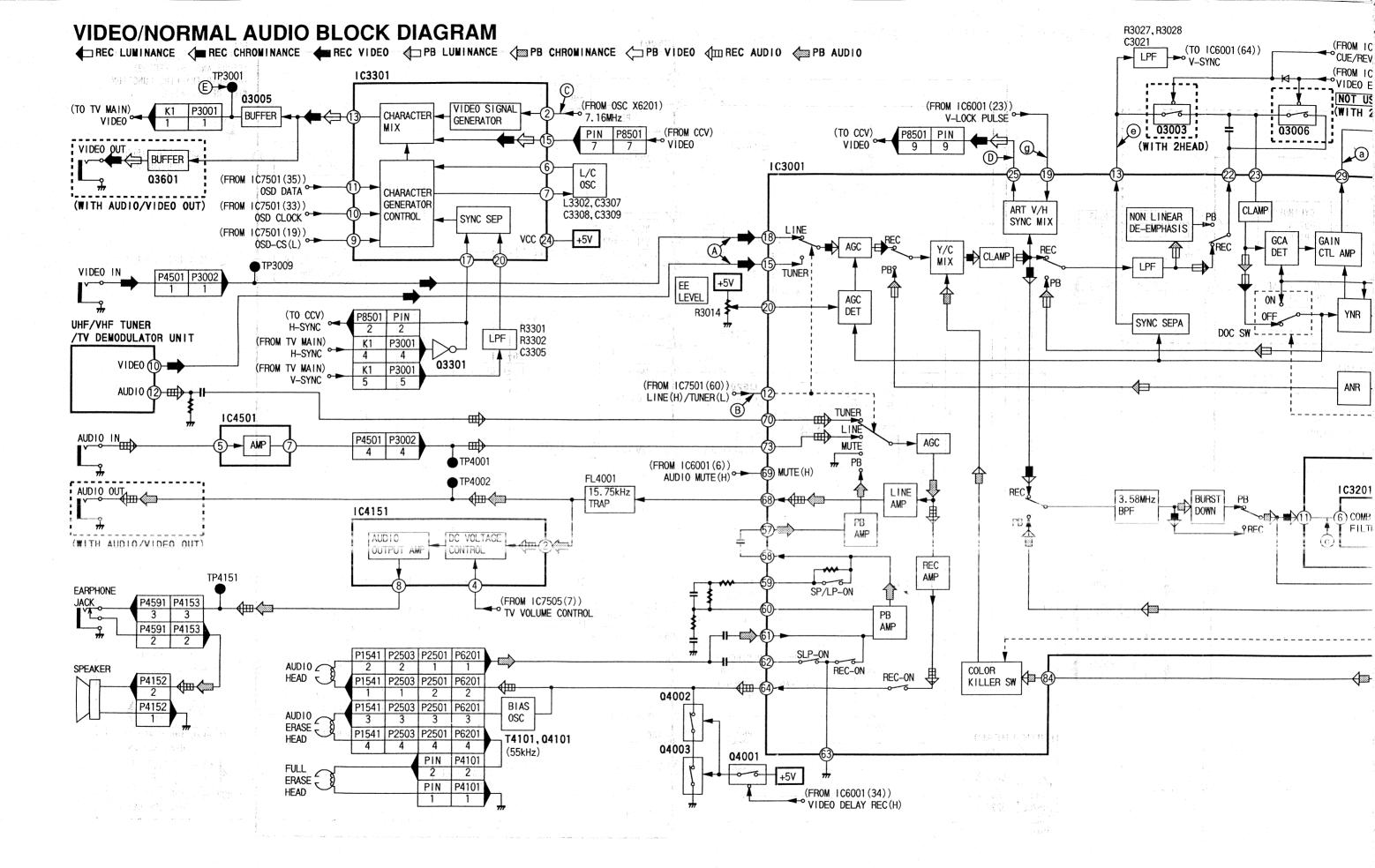
SYMPTOM		FLOW OF TROUBLESHOOT——										
	CHECK POINT	(K)	(L)	M	N	Θ	0					
	IF NO.			, , ,		1	ļ.	4				
WIDE NOISE BAND	CHANGE	7	UPPER C	YLINDER		* NO	TE2	SEE SERVO SECTION				

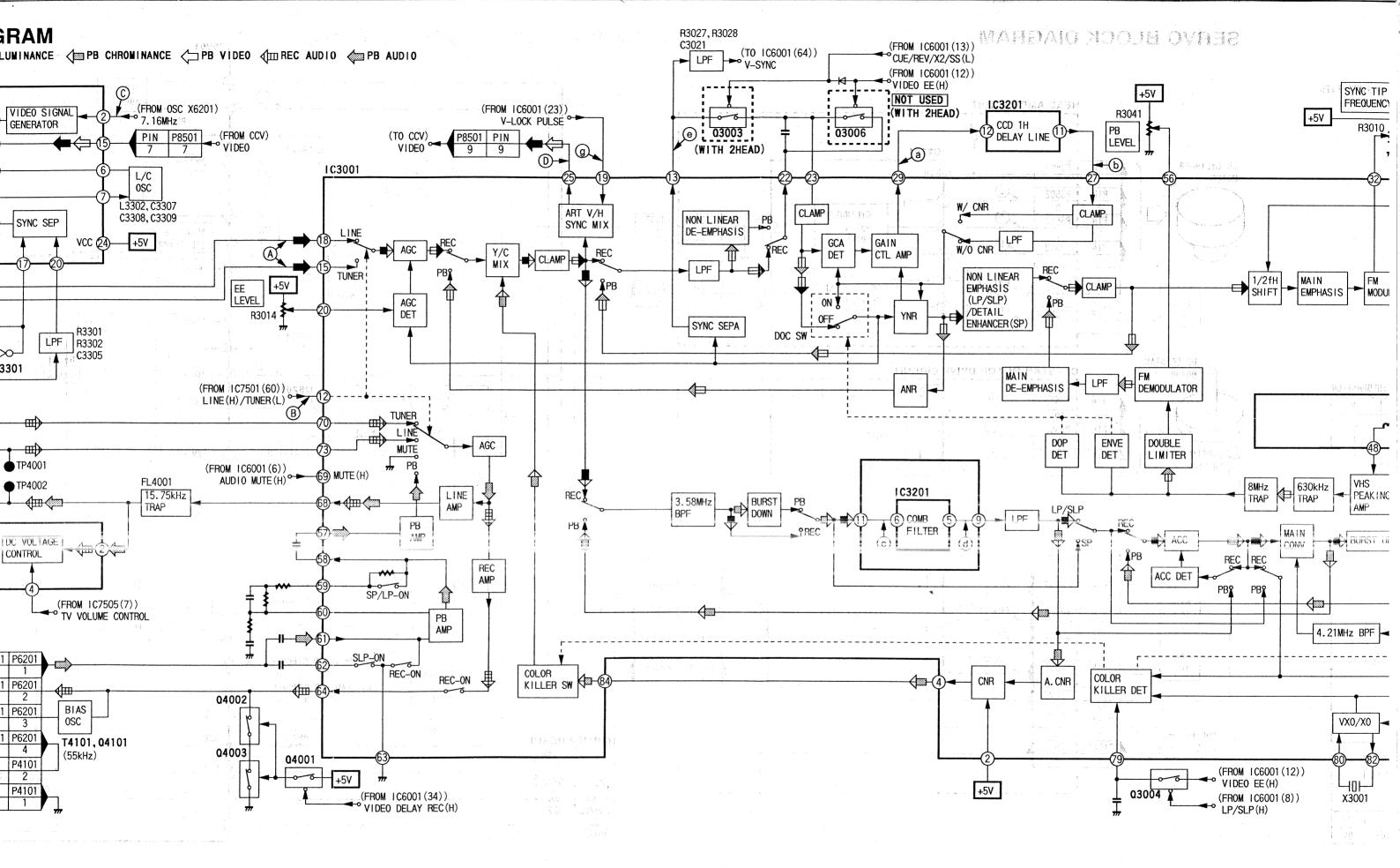
- * NOTE1: Try head cleaning.
- * NOTE2: Check Cylinder FG/PG signal at pin 47 of IC6001.

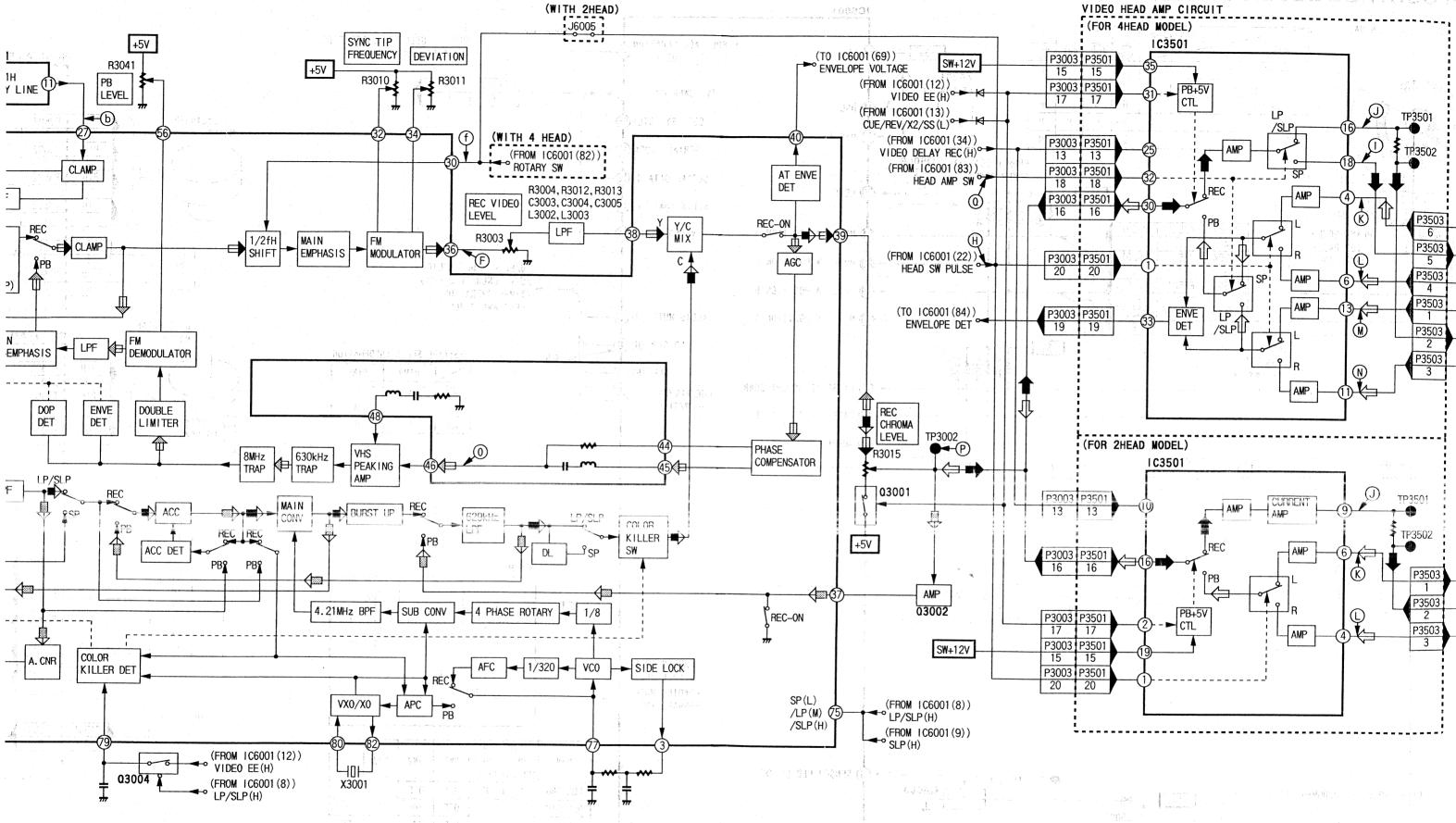
SYMPTOM	-	FLOW OF	TROUBLES	SHOOT——			
	CHECK POINT	P	(D)	Ē	TV		
	IF NO.	₩	•	1			
PB NOISE (SNOW)	CHANGE	IC3001 * NOTE1	* NOTE2	IC3301 CCV Circuit	* NOTE3		

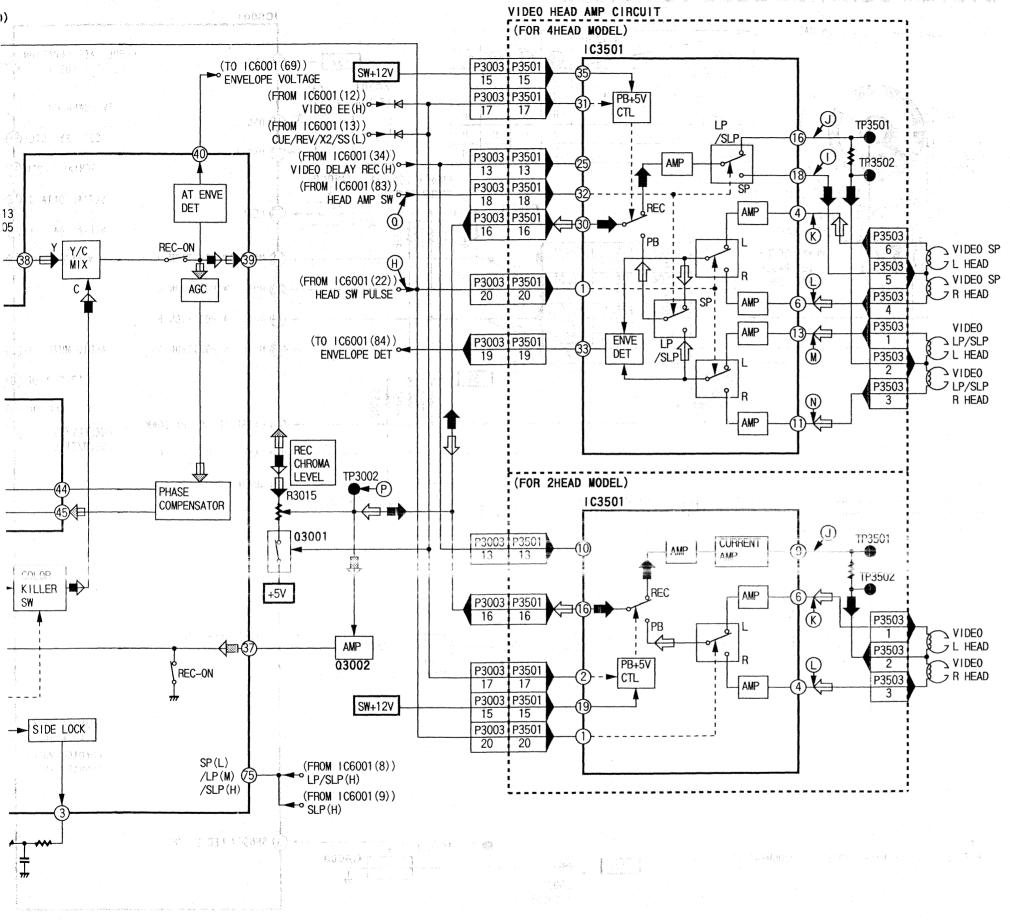
- * NOTE1: Try head cleaning and check Head Amp Shield Case or signals (K) to (N), (H) and (Q).
- * NOTE2: Check signals from (c).
- * NOTE3: Check TV Main Circuit or Video Out Terminal.

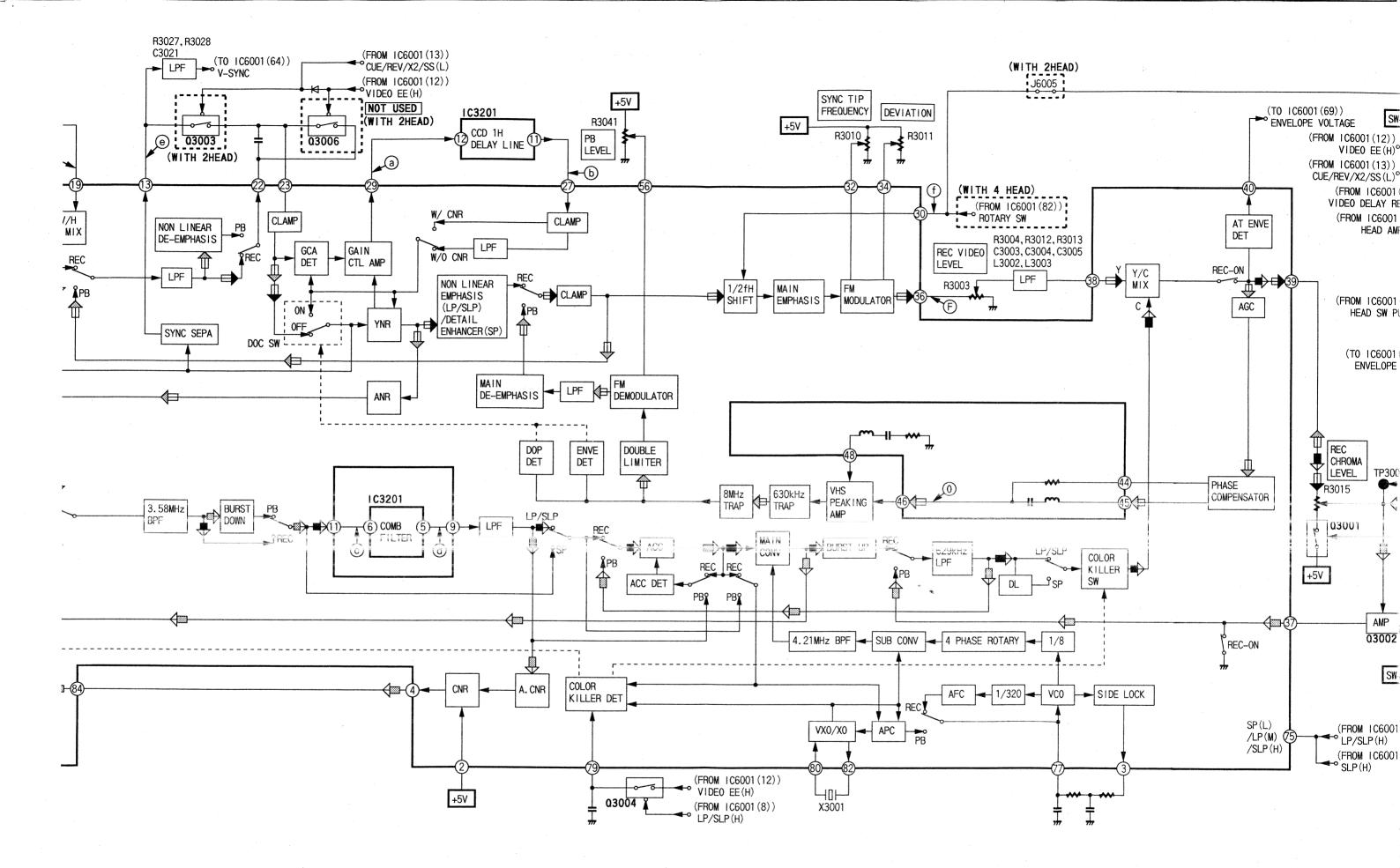


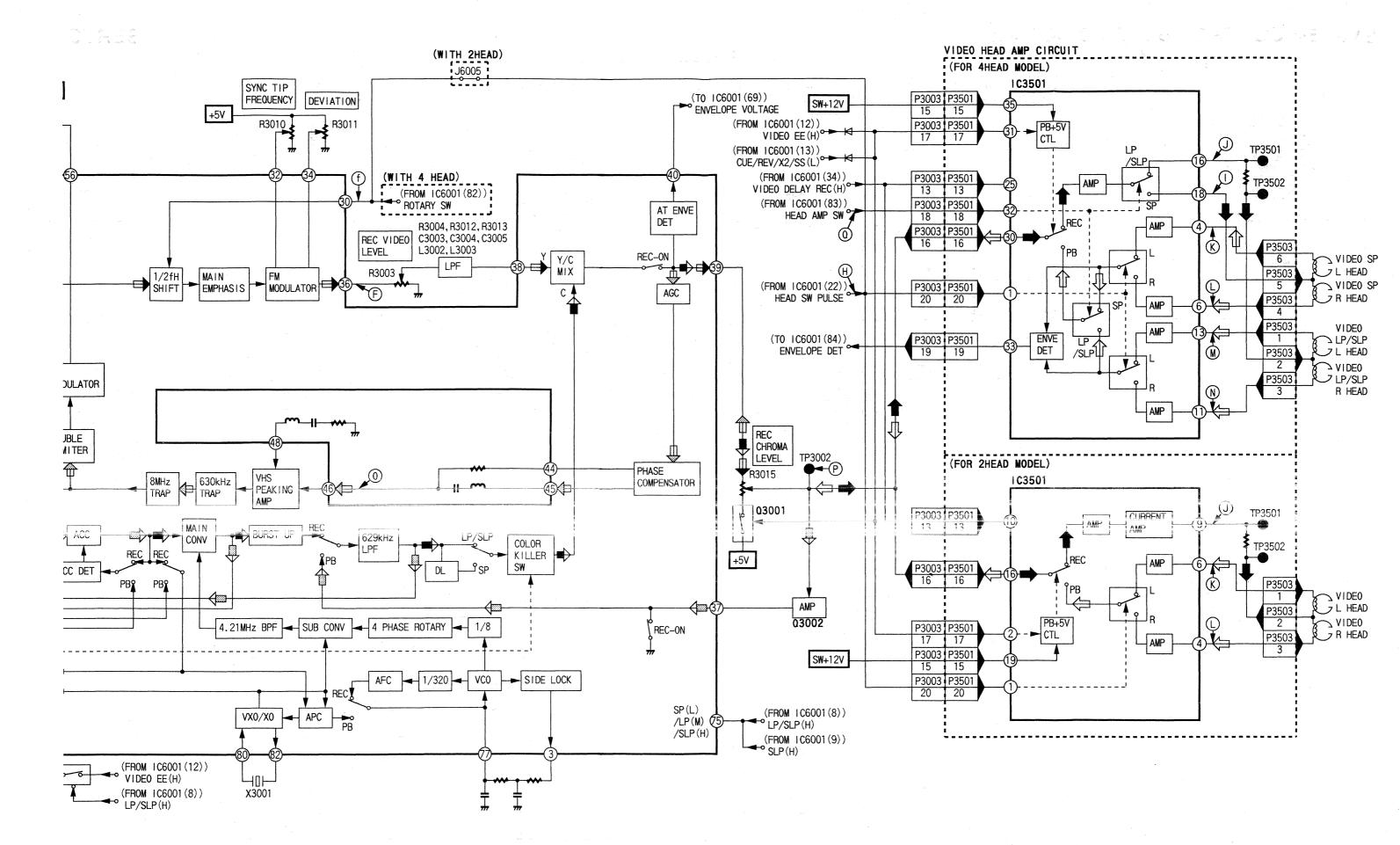




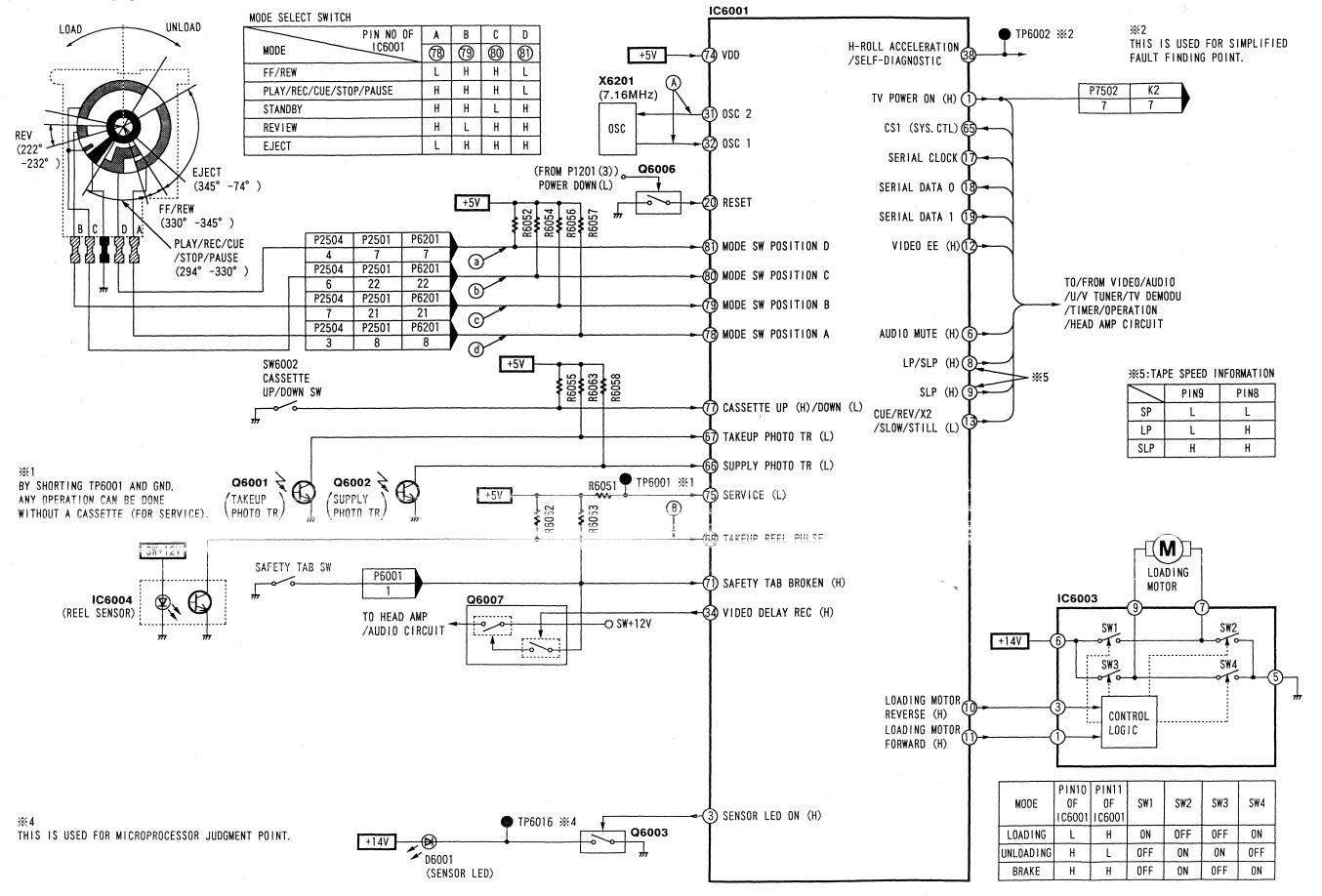


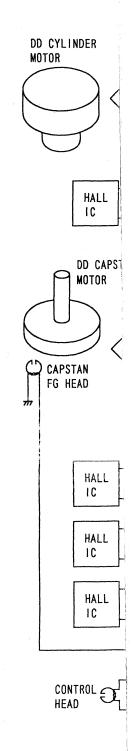






SERVO





SERVO BLOCK DIAGRAM

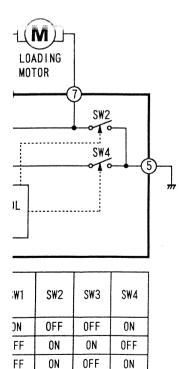




/AUD10 DEMODU ION CUIT

5:TAPE SPEED INFORMATION

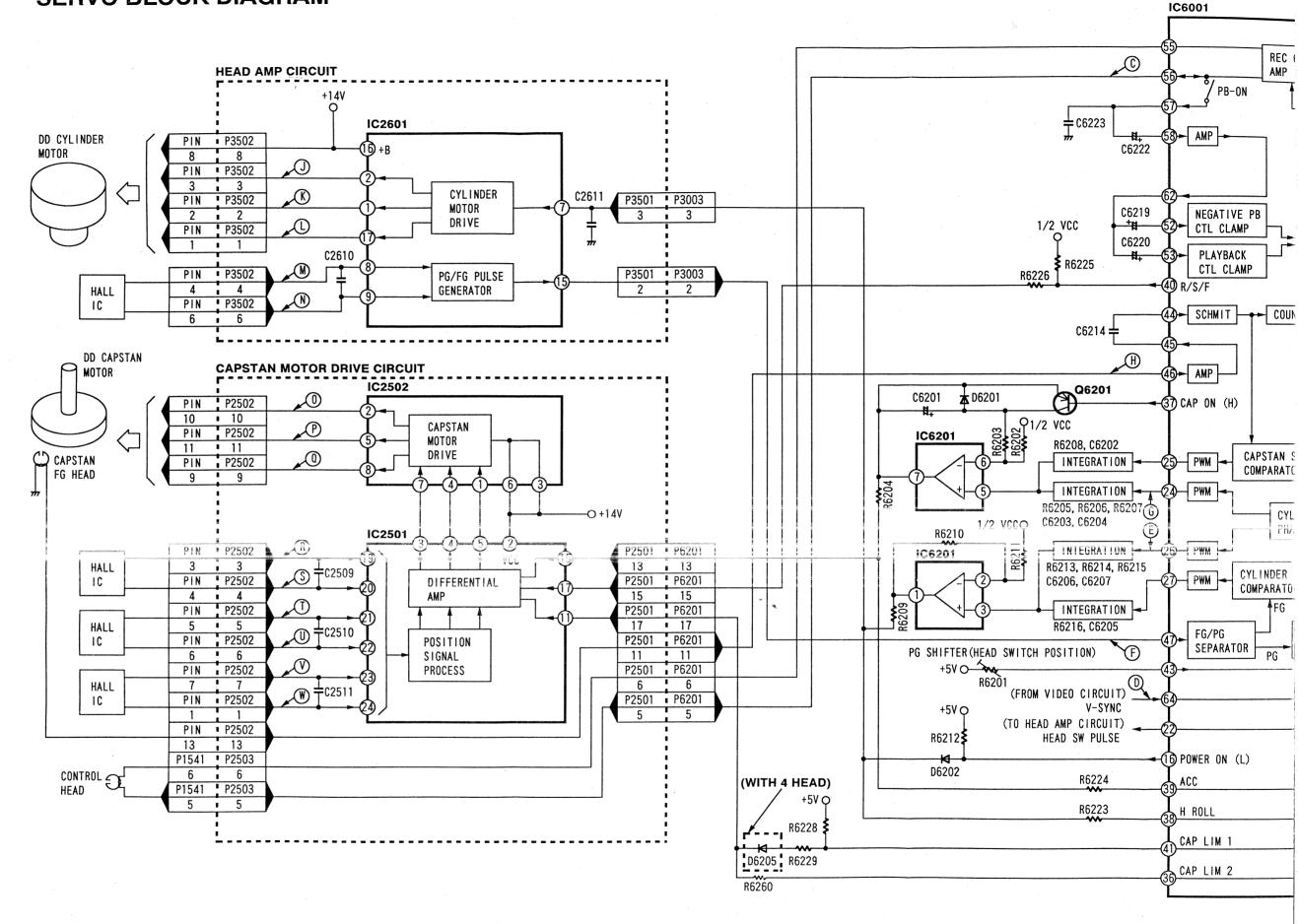
	PIN9	PIN8
SP	L	L
LP	L	Н
LP	Н	Н

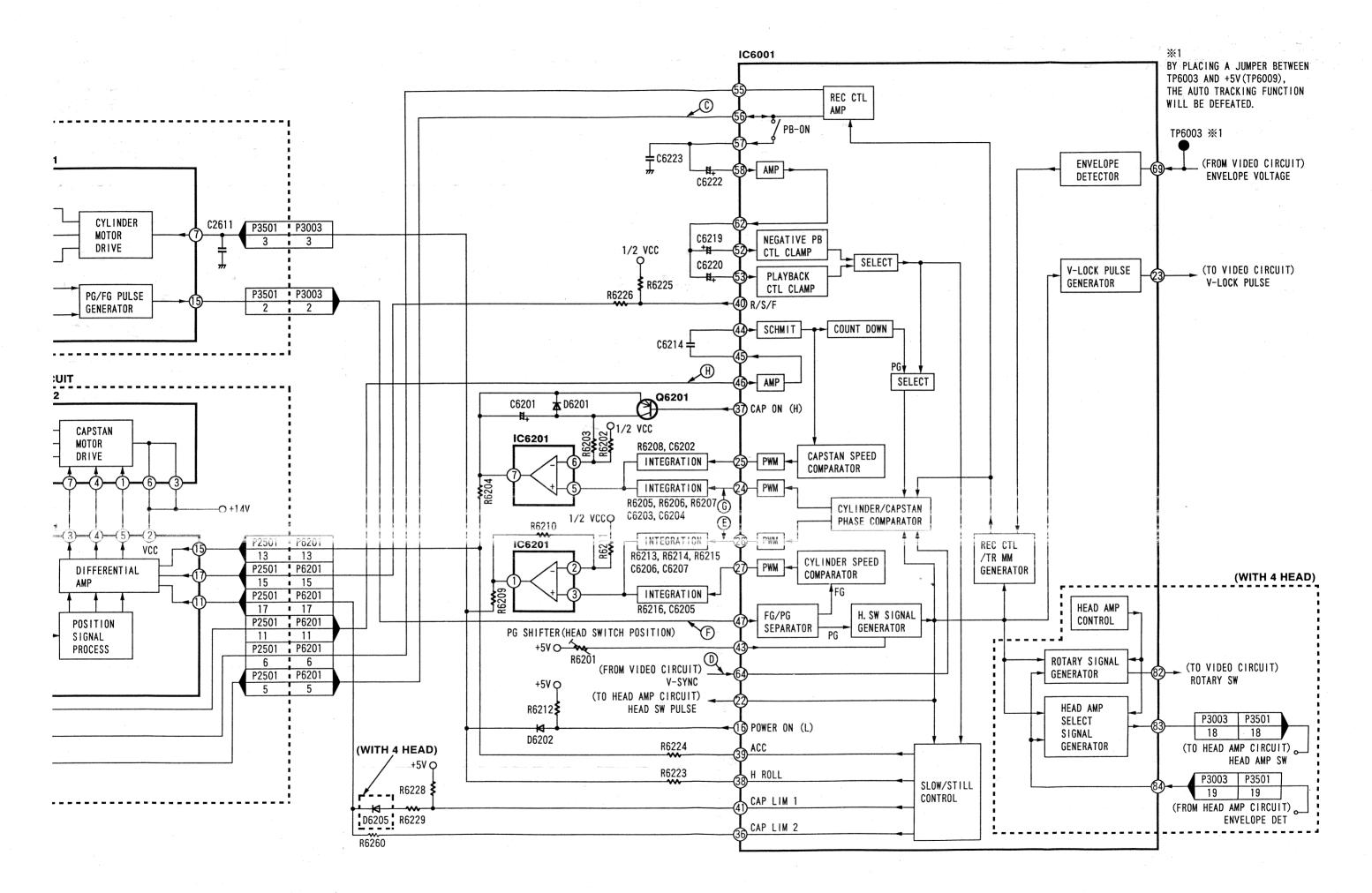


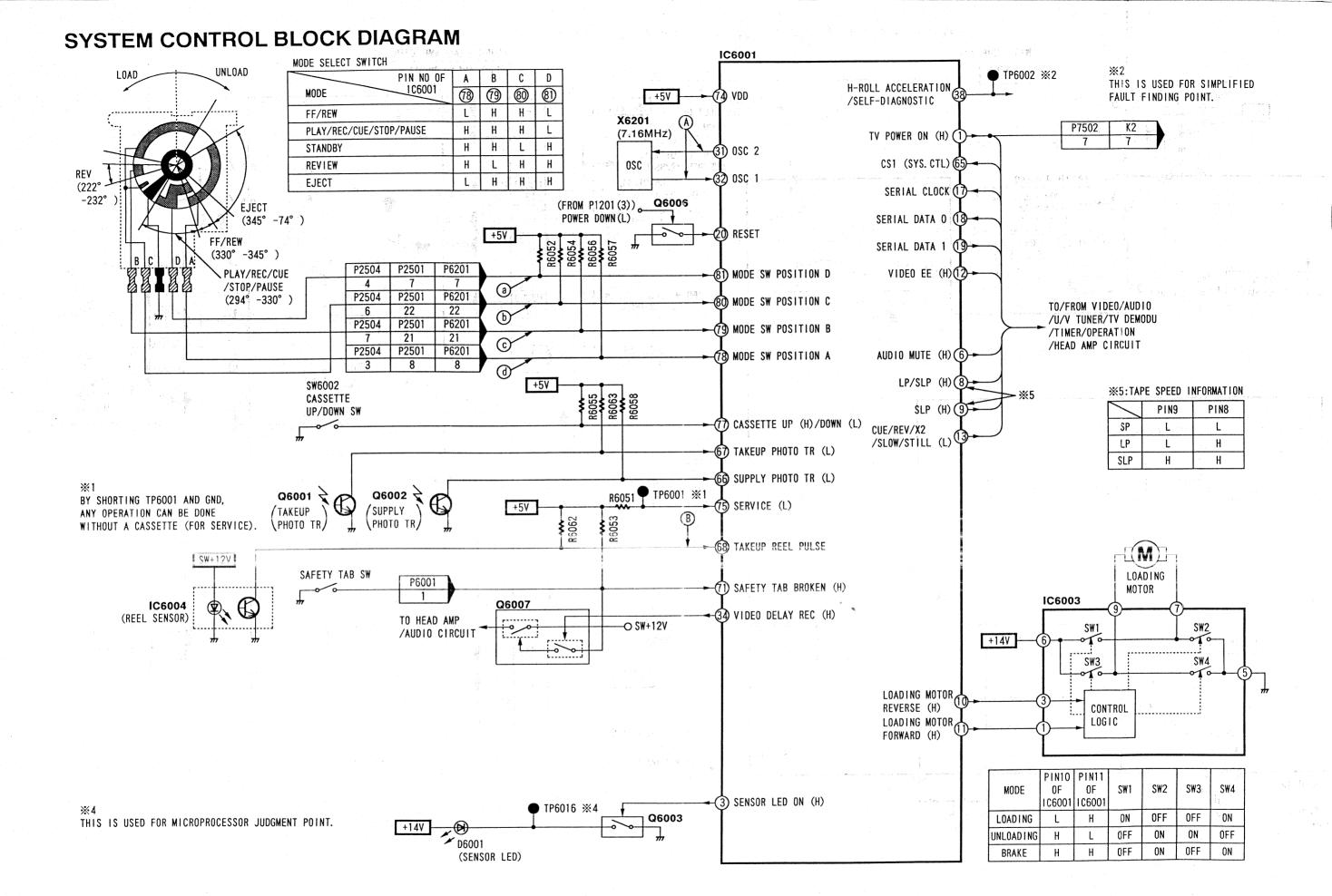
ON

0FF

ON

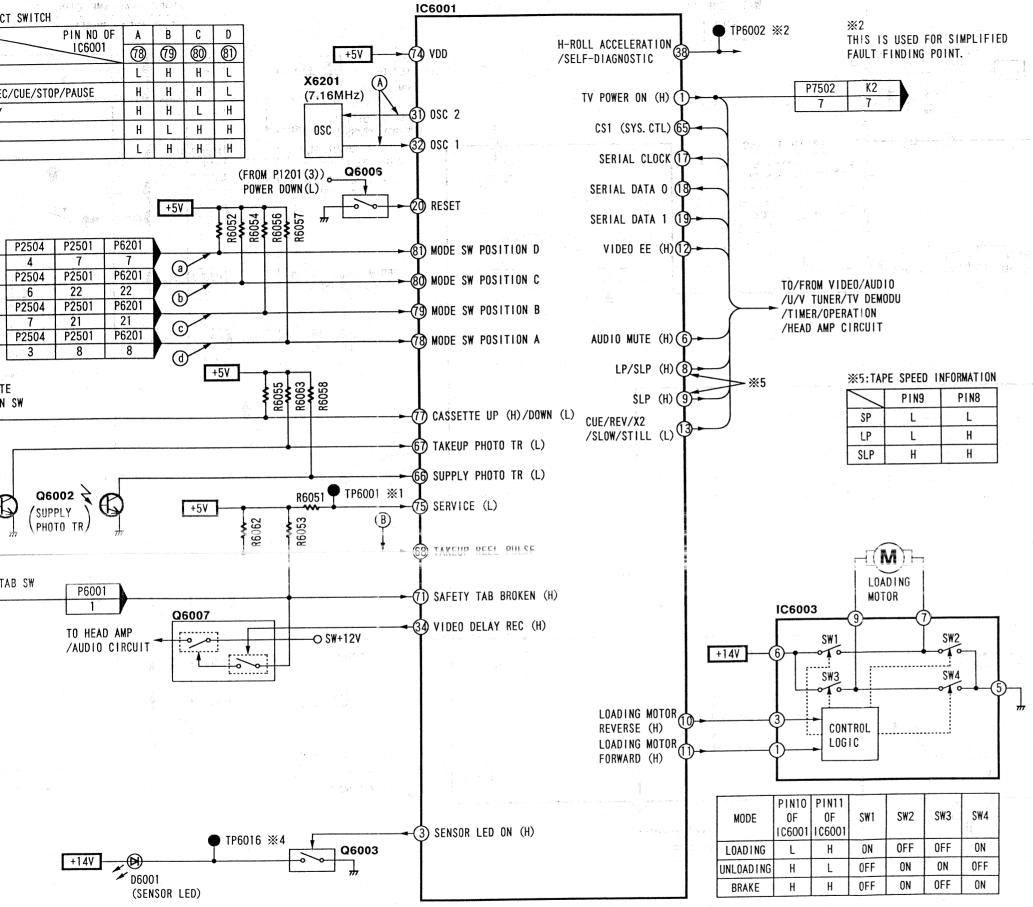


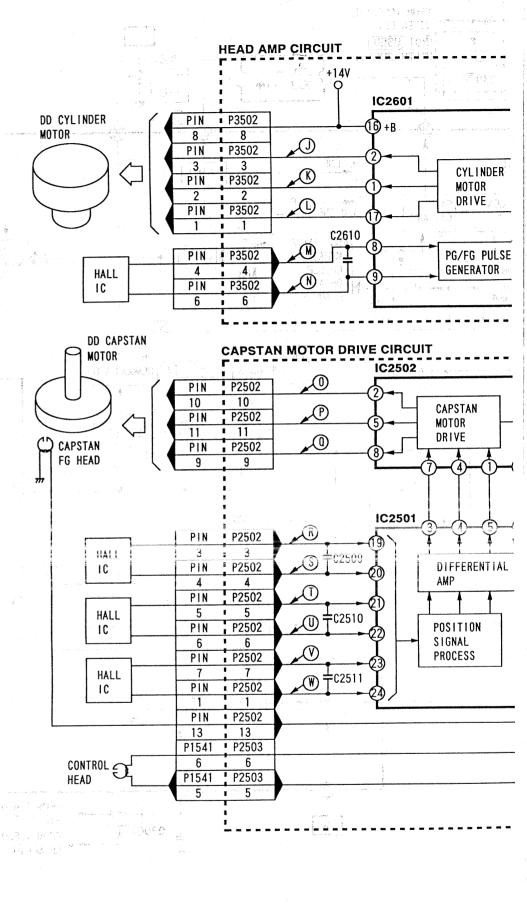


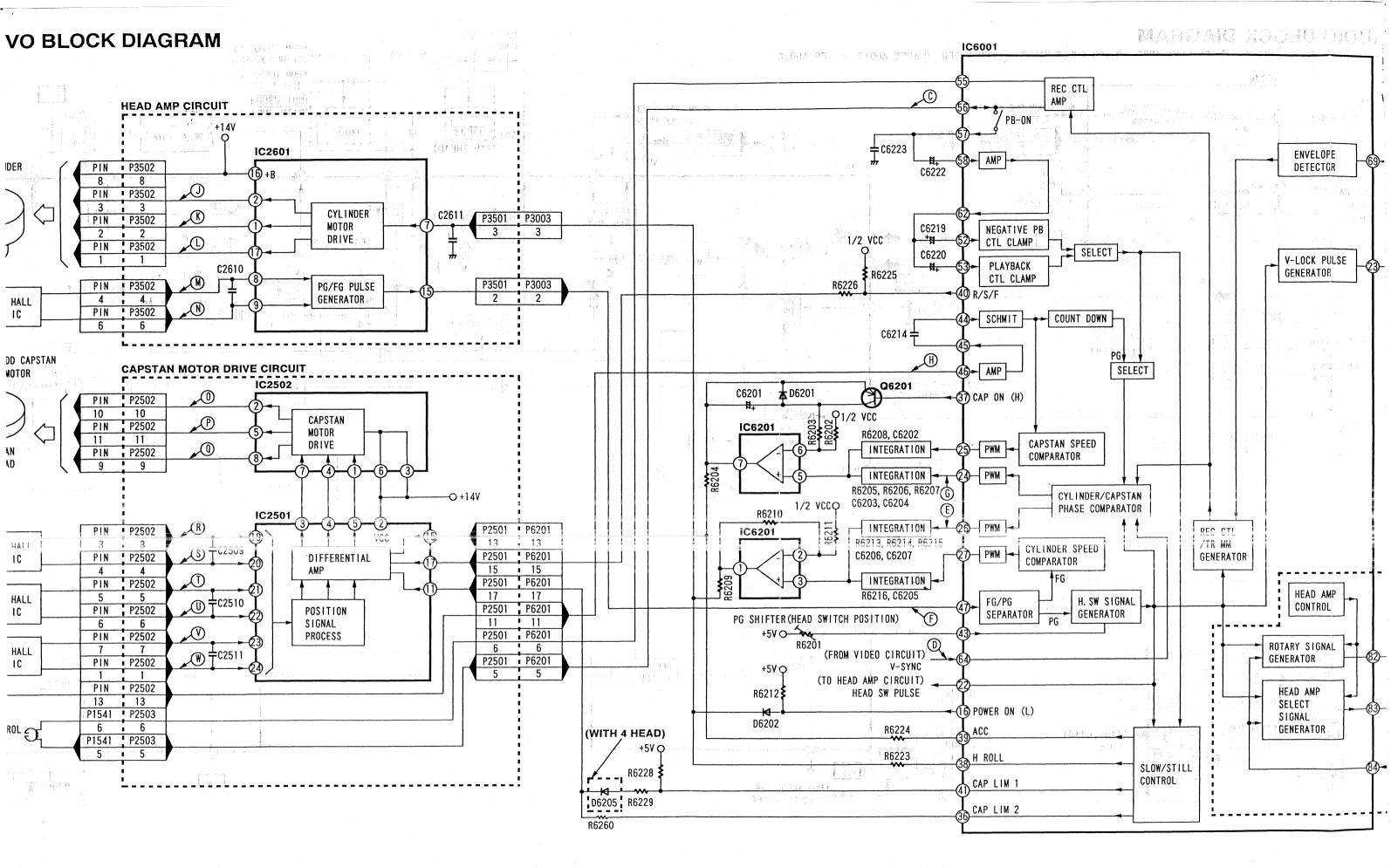


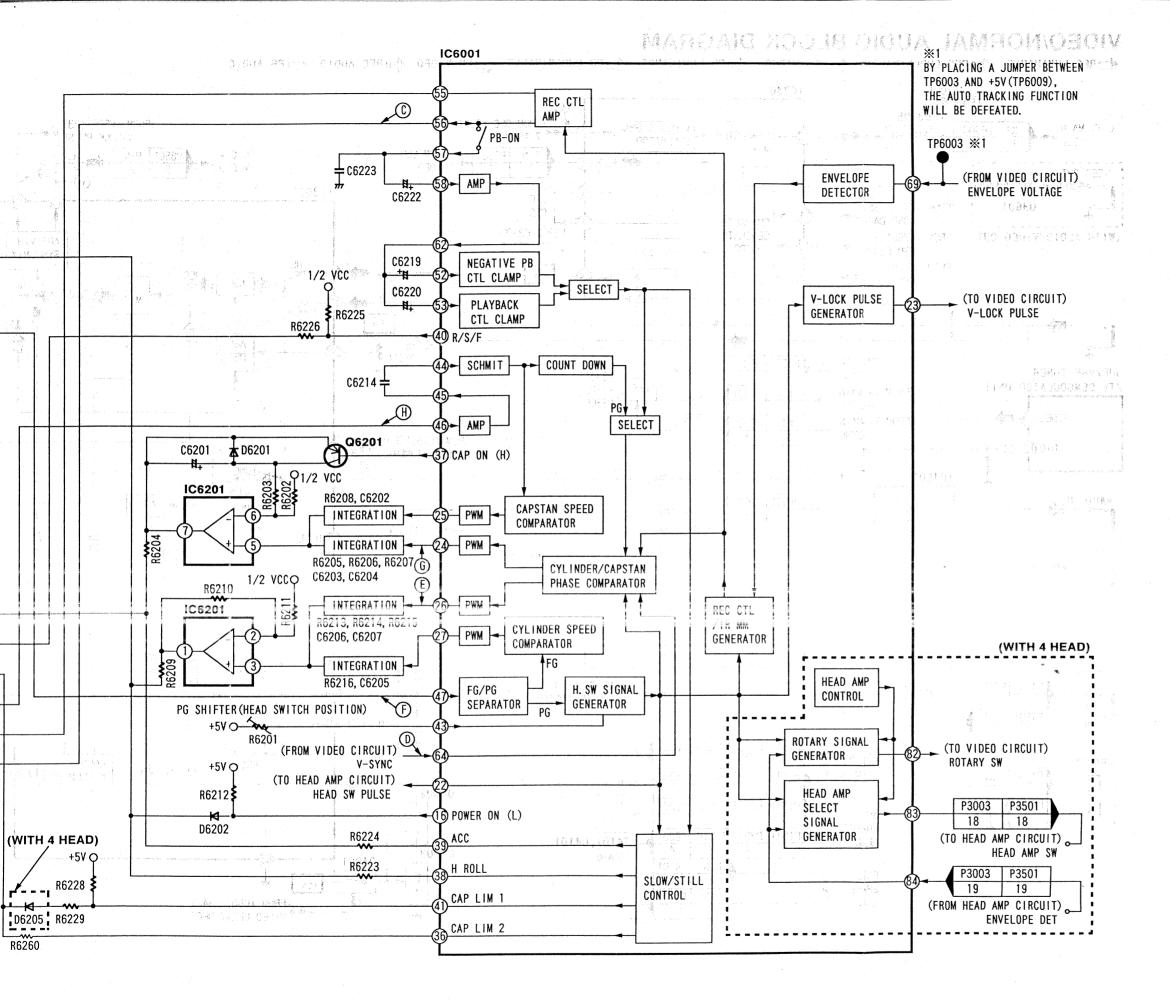
CDIAGRAM

SERVO BLOCK DIAGRAM









WAVEFORMS OF SYSTEM CONTROL AND SERVO STAGE

NO	WAVEFORM	NOTE	NO	WAVEFORM	NOTE	NO	WAVEFORM	NOTE
(4)	∭_4V _P -p	(7.159 MHz)	B	1.6sec 4Vp-p 5V	REC/P.B	©	33msec 5Vp-p	REC CTL
(D)	2Vp-p		Œ	18 μ sec 5Vp-p		Ē	33msec	
(G)	18 μ sec 		\oplus	MM ″F" (1∕T)	"F" = SP:1080 LP:540 SLP:360			
(L)	11 Vp-p (180Hz)		(S) (Z)	0.95Vp-p		<u>©</u>	60msec 2Vp-p (12.5Hz)	
R (9) (7) (9) (8)	0.1 Vp-p (12.5 Hz)							

SYSTEM CONTROL AND SERVO CHECKING PROCEDURE

SYMPTOM FLOW OF TROUBLESHOOT											
Dead or Malfunctions	CHECK POINT	Pin74 (VDD5V)	A	Pin20 NORMAL(H)	Pin17 (SCK)	a ~ d					
Warranotions	IF NO.		▼	+	*	*					
	CHANGE	Power	X6201	Q6006	IC6001	* NOTE1					

* NOTE1: Adjust Gear Phase. * NOTE2: Check Power Circuit.

SYMPTOM		FLOW OF TROUBLESHOOT										
NO PLAY	CHECK POINT	a ~ d	F	B								
	IF NO.	+	+	4								
	CHANGE	* NOTE1	* NOTE2	* NOTE3				**************************************				

* NOTE1: Adjust Gear Phase.

* NOTE2: IC2601 (Cyl Drive) or Cylinder U.

* NOTE3: IC2501 or IC2502 (Cap Drive) or Reel Sensor.

SYMPTOM		FLOW OF	TROUBLES	SHOOT ——	-	
Distorted Playback Pix (1)	CHECK POINT			* NOTE3	* NOTE5	
	IF NO.	*	•	₩		
	CHANGE	* NOTE1	* NOTE2	* NOTE4		

* NOTE1: Check Video Circuit.

* NOTE2: IC2601 (Cyl Drive) or Cylinder U.

* NOTE3: Open pin 7 of IC2601 and apply external 2.5V DC to pin 7. * NOTE4: If the picture is still the same, change IC2601 or Cylinder U.

* NOTE5: If the picture is improved, change IC6001 or IC6201.

SYMPTOM		FLOW OF	SHOOT	-		
Distorted Playback Pix (2)	CHECK POINT	©	H	* NOTE3	* NOTE5	
(m)	IF NO.	4	*	*		
(Periodic Noise bar)	CHANGE	* NOTE1	* NOTE2	* NOTE4		

* NOTE1: Check tape travel and clean A/C head.

* NOTE2: Check FG Head.

* NOTE3: Open pin 15 of IC2501 and apply external 2.5V DC to pin 15.

* NOTE4: If the picture is still the same, change IC2501,2502 or Capstan Motor.

* NOTE5: If the picture is improved, change IC6001 or IC6201.

ACTION	1	PLAY/REC(C	YL ON)	,	PLAY/REC(CYL OFF)					
POSITION			9			9				
TIME ms*		28	48		28	28				
CAPSTAN ON(H) (PIN 37)		3A-1				3B-2				
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)	M	L		_	М					
CYLINDER ON (L)	_				3B-1					
VIDEO D. REC (H) (PIN 34)	_		REC PLAY			REC PLAY				
VIDEO EE(H) (PIN 12)	-		REC PLAY	_		REC PLAY				
AUDIO MUTE(H) (PIN 6)	_	ſ	PLAY REC			PLAY REC				

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

3. PLAY/REC

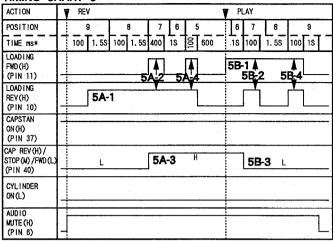
3A. CYLINDER ON

3A-1. The Capstan Motor starts rotation in a forward direction for REC/PLAY.

3B. CYLINDER OFF

38-1. The Cylinder Motor starts rotation for quick play.
38-2. 2 seconds later, Cylinder Motor rotation is stabilized and the Capstan Motor starts rotation in a forward direction.

TIMING CHART 5



NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

5. REVIEW

5A. PLAY TO REVIEW

5A-1. The Loading Motor starts rotation in a reverse direction.

5A-2. Just after the Pressure Roller and the Tension Arm are released, the Loading Motor stops.

5A-3. While the Loading Motor is stopped, the Capstan Motor changes

its direction to reverse. 5A-4. When the Mode Switch reaches position 5, the Loading Fwd(H) signal goes HIGH to apply a brake to the Loading Motor. The Pressure Roller is applied to the Capstan Shaft.

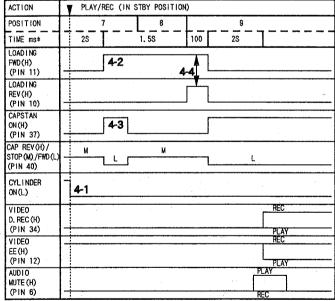
5B. REVIEW TO PLAY

5B-1. The Loading Motor starts rotation in a forward direction. 5B-2. Apply a brake to the Loading Motor.

58-3. While the Loading Motor is stopped, the Capstan Motor changes its direction to forward.

5B-4. When the Mode Switch reaches position 9, the Loading Motor stops.

TIMING CHART 4



NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

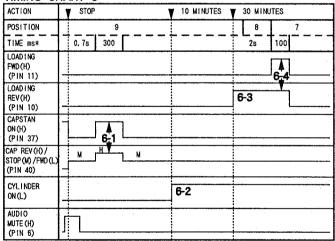
4. PLAY/REC (FROM STANDBY POSITION)

4-1. The Cylinder Motor starts rotation for quick play.
4-2. The Loading Motor starts rotation in a forward direction.

4-3. The Idler Gear swings over to Takeup Reel.

4-4. When the Mode Switch reaches position 9, the Loading Rev(H) signal goes HIGH to apply a brake to the Loading Motor. Then the Loading Motor stops quickly.

TIMING CHART 6



NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF 1C6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

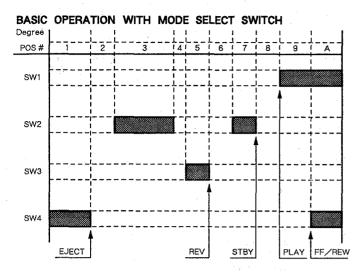
6. PLAY TO STOP/AFTER 10 MINUTES/AFTER 30 MINUTES

6-1. The Capstan Motor rotates a little in reverse direction to reduce

the tape tension.
6-2. After 10 minutes, the Cylinder stops.
6-3. After 30 minutes, the Mechanism changes the position to 7(Standby).

6-4. At this position, the Pressure Roller and the Tension Arm are released to reduce the tape tension.

100



TIMING CHART 1

111411140 01	77 44 1
ACTION	CASSETTE IN/PLAY (S-TAB OFF)
POSITION	1 2 3/4/5/6 7 8 9
TIME ms*	2. 6S 5. 1S S 2S
CASSETTE DOWN(L) (PIN 77)	1-2
LOADING FWD(H) (PIN 11)	1-3
LOADING REV(H) (PIN 10)	
CAPSTAN ON(H) (PIN 37)	4 1-4 → 1-6
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)	M L M L
CYLINDER ON (L)	1-1
VIDEO EE(H) (PIN 12)	
AUDIO MUTE(H) (PIN 6)	

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF 1C6001.

2) *: IT SHOWS MAXIMUM TIME.

- MODE BY MODE OPERATION

 1. CASSETTE IN/PLAY (WITHOUT SAFETY TAB)
- 1-1. The Cylinder starts rotation for quick play.
- 1-2. The Cassette Down(L) signal goes LOW. (If the Cassette Down(L) signal does not go LOW even at position 2, the unit ejects the tape.)
 1-3. The Loading Motor starts rotation in a forward direction.
 1-4. 1)The Play idler returns to center.

- 2) The Idler Gear swings over to Takeup Reel.
- 1-5. When the Mode Switch reaches position 9, the Loading Rev(H) signal goes HIGH to apply a brake to the Loading Motor. Then the Loading Motor stops.
- 1-6. Starts playback.

TIMING CHAPT 2

ACTION	
TIME ms* 2.6S 5.1S E CASSETTE DOWN (L) 2-2	
CASSETTE DOWN (L) 2-2	9
DOWN (L) 2-2	
[V ''' '''] ;	·
LOADING FWD(H) (PIN 11) 2-3	
LOADING REV(H) (PIN 10)	
CAPSTAN ON (H) (PIN 37)	2-6
CAP REV(H) / M M M (PIN 40)	H 1 M
CYLINDER ON(L) 2-1	

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF 1C6001.

2) *: IT SHOWS MAXIMUM TIME.

- MODE BY MODE OPERATION
 2. CASSETTE IN/STOP (WITH SAFETY TAB)
- 2-1 thru 2-5 are the same as 1-1 thru 1-5 of Timing Chart 1 (without
- 2-6. The Capstan Motor rotates a little in reverse direction to reduce the tape tension.

ACTION	FF/REW (CYL ON)	FF/REW (CYL OFF)
POSITION	9 A	9 A
TIME ms*	1.58 100 400 200	28 1.58 100
LOADING FWD(H) (PIN 11)	7A-1 1 7A-2	7B-2 Å
LOADING REV(H) (PIN 10)		
CAPSTAN ON(H) (PIN 37)	7A-3	7B-4
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)	M H REW	M H REW
CYLINDER ON (L)		7B-1
FF/REW(L)		

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF 1C6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

7A. CYLINDER ON

7A-1. Changes the mechanism position to A(FF/REW) to release the /7A-2. Pressure Roller and the Tension Arm.

7A-3. The Capstan Motor starts rotation for FF/REW. During FF/REW, the Cylinder keeps rotation to prevent a tape damage.

7B-1. The Cylinder Motor starts rotation.

7B-2/7B-3/7B-4, these are the same as that of 7A-1 thru 7A-3.

TIMING CHART 9

ACTION	V EJECT V EJECT
POSITION	9/8 7 6/5/4 3/2 1
TIME ms*	7S 200 4S 40 100
CASSETTE DOWN(L) (PIN 77)	9-4
LOADING FWD(H) (PIN 11)	9,6
LOADING REV(H) (PIN 10)	9-1
CAPSTAN ON(H) (PIN 37)	9,2 9,3 9,7
CAP REV(H)/ STOP(W)/FWD(L) (PIN 40)	M
CYLINDER ON (L)	9-5

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001. 2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

9. STOP TO EJECT

9-1. Unloads the mechanism to the Eject position(1). 9-2. The Idler Gear swings over to Supply Reel.

9-3. The Capstan Motor rotates in reverse direction to takeup a tape

9-4. The Cassette Down(L) signal goes HIGH.

9-5. When the Mode Switch reaches position 1, the Cylinder stops.

9-6. The Loading Motor stops.

9-7. The Idler Gear is released from Supply Reel.

TIMING CHART 8

ACTION	FF/REW (STBY) STOP
POSITION	7 8/9 A 9/8 7 8 9
TIME ms*	2\$ 2.6\$ 100 400 200 200 2.6\$ 250 1.5\$ 100
LOADING FWD(H) (PIN 11)	8A-2
LOADING REV(H) (PIN 10)	8B-2
CAPSTAN ON(H) (PIN 37)	8A-4 8B-4 8B-7
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)	M H REW VEF M M HV T
CYLINDER ON(L)	8A-1
FF/REW(L)	

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

8. STOP TO FF/REW (FROM STANDBY POSITION)

8A. STOP (STANDBY) TO FF/REW

8A-1. The Cylinder Motor starts rotation.

8A-2. Changes the mechanism position to A(FF/REW) to release the

/8A-3. Pressure Roller and the Tension Arm.

8A-4. The Capstan Motor starts rotation for FF/REW. During FF/REW. the Cylinder keeps rotation to prevent a tape damage.

8B. FF/REW TO STOP

8B-1. Apply a brake to the Capstan Motor for quick stop.

8B-2. Changes the mechanism position to 7 to release the Pressure

/8B-3. Roller and the Tension Arm.

8B-4. The Idler Gear swings over to Takeup Ree!

8B-5. Changes the mechanism position to 9(PLAY POSITION).

88-7. The Capstan Motor rotates a little in reverse direction to reduce the tape tension.

TIMING CHART 10

ACTION	▼ PAUSE PAUSE RELEASE ▼
POSITION	9 8 7 8 9 8 7 8 9
TIME ms*	400 28 300 28 100 3.58 28 100 28 100 1.28 1.568
LOADING FWD(H) (PIN 11)	10A-4 10A-2 10A-5 10A-8 10A-11
LOADING REV(H) (PIN 10)	10A-1 10A-7
CAPSTAN ON(H) (PIN 37)	10A-9 10A-12 10B-1
CAP REV(H)/ STOP(W)/FWD(L) (PIN 40)	и да и да и
CYLINDER ON (L)	
VIDEO D. REC(H) (PIN 34)	

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.
2) *:IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION 10. REC TO REC PAUSE/REC PAUSE TO REC

10A. REC TO REC PAUSE

10A-1. Changes the mechanism position to 7(STANDBY).

/10A-2.

10A-3. The Idler Gear swings over to Supply Reel. 10A-4. Changes the mechanism position to 9(PLAY POSITION).

/10A-5. 10A-6. Rewind the tape for 3.5 sec(SP)/1.8 sec(LP)/1.23 sec(SLP).

10A-7. Changes the mechanism position to 7(STANDBY).

/10A-8. 10A-9. The Idler Gear swings over to Takeup Reel.

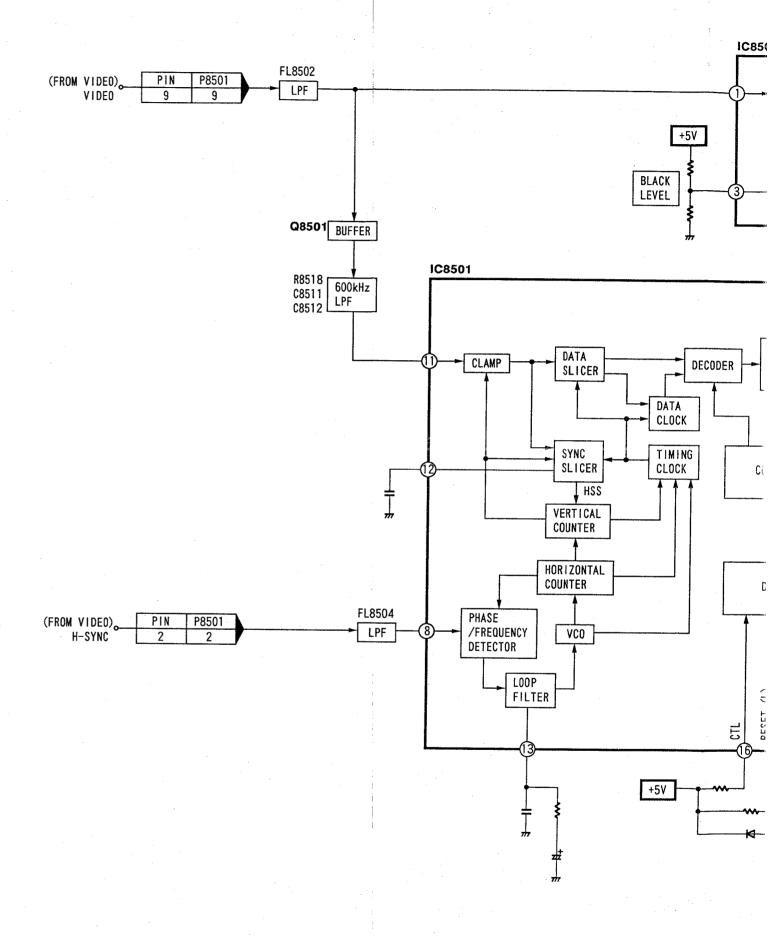
10A-10. Changes the mechanism position to 9(PLAY POSITION).

/10A-11.

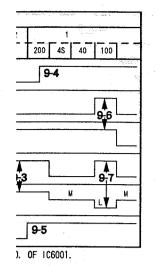
10A-12. Playback the tape for 1.2 seconds to adjust add-on recording portion.
10B. REC PAUSE TO REC

10B-1. The Capstan Motor starts rotation in forward direction for playback. (The video recording will be activated with the Video Delay Rec(H) signal.)

CCV(CLOSED CAPTION VIDEO DECODER) BLOCK DIAGRAM



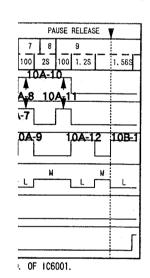
CCV(CLOSED CAPTION VIDEO DECODER) BLOCK DIAGRAM



:ion(1).
31.
ection to takeup a tape

the Cylinder stops.

امما



7 (STANDBY).

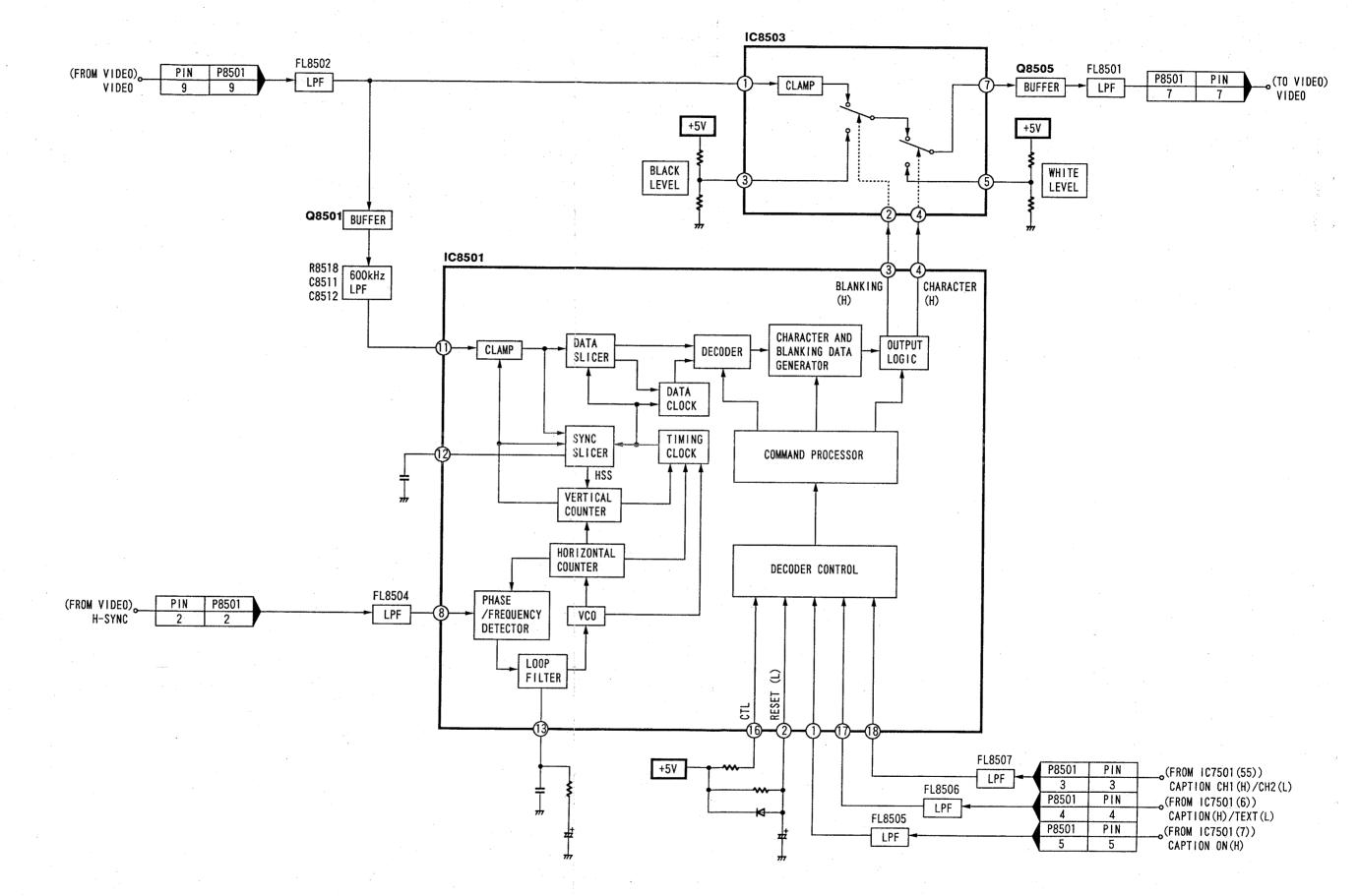
ply Reel. 9(PLAY POSITION).

.8 sec(LP)/1.23 sec(SLP). 7(STANDBY).

eup Reel. o 9(PLAY POSITION).

s to adjust add-on

in forward direction for II be activated with the



ACTION	▼ FF/RE	W (CYL ON)	FF/REW (CYL	FF/REW (CYL OFF)		
POSITION	9	A	9	^		
TIME ms*	1.58	100 400 200	2S 1.5S 1			
LOADING FWD(H) (PIN 11)	7A-1	A-2	7B-2 /			
LOADING REV(H) (PIN 10)						
CAPSTAN ON(H) (PIN 37)		7A-3		7B-4		
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)	М	H REW	- M	H REW		
CYLINDER ON(L)			7B-1	0.000		
FF/REW(L)				18		

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

7. STOP TO FF/REW

7A. CYLINDER ON

7A-1. Changes the mechanism position to A(FF/REW) to release the

/7A-2. Pressure Roller and the Tension Arm.

7A-3. The Capstan Motor starts rotation for FF/REW. During FF/REW. the Cylinder keeps rotation to prevent a tape damage.

7B. CYLINDER OFF

7B-1. The Cylinder Motor starts rotation. 7B-2/7B-3/7B-4, these are the same as that of 7A-1 thru 7A-3.

TIMING CHART 9

ACTION	▼ EJECT ▼ EJECT
POSITION	9/8 7 6/5/4 3/2 1
TIME ms*	75 200 45 40 100
CASSETTE DOWN(L) (PIN 77)	9-4
LOADING FWD(H) (PIN 11)	9,6
LOADING REV(H) (PIN 10)	9-1
CAPSTAN ON(H) (PIN 37)	9,2 9,3 9,7
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)	
CYLINDER ON(L)	9-5

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001. 2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION

9. STOP TO EJECT

9-1. Unloads the mechanism to the Eject position(1).

The Idler Gear swings over to Supply Reel.

9-3. The Capstan Motor rotates in reverse direction to takeup a tape slack.

9-4. The Cassette Down(L) signal goes HIGH.

9-5. When the Mode Switch reaches position 1, the Cylinder stops.

9-6. The Loading Motor stops.

9-7. The Idler Gear is released from Supply Reel.

TIMING CHART 8

ACTION	▼ FF/RE	FF/REW (STBY)			▼ STOP		
POSITION	7	8/9	A	9/8 7	8 g		
TIME ms*	28	2. 68	100 400 200	200 2. 65 250	1.58 100		
LOADING FWD(H) (PIN 11)	8	A-2	8A-3	8B 8B			
LOADING REV(H) (PIN 10)				8B-2			
CAPSTAN ON(H) (PIN 37)			8A-4	8B-4	8B-7		
CAP REV(H)/ STOP(M)/FWD(L) (PIN 40)		м	H REW	TEF M L REW	M		
CYLINDER ON (L)	8A-1		1		· · · · · · · · · · · · · · · · · · ·		
FF/REW(L)			# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 1944 - 1944 . 1944 - 1944		

NOTE: 1) PIN NO. WITH BRACKET INDICATES PIN NO. OF IC6001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION 8. STOP TO FF/REW(FROM STANDBY POSITION)

8A. STOP(STANDBY) TO FF/REW

8A-1. The Cylinder Motor starts rotation. 8A-2. Changes the mechanism position to A(FF/REW) to release the

/8A-3. Pressure Roller and the Tension Arm.

8A-4. The Capstan Motor starts rotation for FF/REW. During FF/REW, the Cylinder keeps rotation to prevent a tape damage.

8B. FF/REW TO STOP

8B-1. Apply a brake to the Capstan Motor for quick stop.

8B-2. Changes the mechanism position to 7 to release the Pressure

/8B-3. Roller and the Tension Arm.

8B-4. The Idler Gear swings over to Takeup Reel. 8B-5. Changes the mechanism position to 9(PLAY POSITION).

8B-7. The Capstan Motor rotates a little in reverse direction to reduce the tape tension.

TIMING CHART 10

▼ PAUSE			PAUSE RELEASE	. ▼
9 8	7 8 9	8 7	8 9	F 77 7
400 2S	300 28 100 3	. 5S 2S 100	2S 100 1.2S	1.568
10	10A-4 0A-2 10A-5	A	A	-
10A-		10A-7	Π	
	0A-3 10	A	9 1.0A-12	1.0B-1
M	<u>, </u>	~	, M	M L
		-		
	9	9 8 7 8 9 400 28 300 28 100 3 10A-4 10A-1 10A-5	9 8 7 8 9 8 7 400 28 300 28 100 3.58 28 100 10A-2 10A-5 10A-8 10A-1 10A-7 10A-3 10A-5 M H M H M	9 8 7 8 9 8 7 8 9 400 28 300 28 100 3.58 28 100 28 100 1.28 10A-10 10A-1 10A-5 10A-9 10A-12 M H M H M M

1) PIN NO. WITH BRACKET INDICATES PIN NO. OF 106001.

2) *: IT SHOWS MAXIMUM TIME.

MODE BY MODE OPERATION 10. REC TO REC PAUSE/REC PAUSE TO REC

10A. REC TO REC PAUSE

10A-1. Changes the mechanism position to 7(STANDBY).

/10A-2.

10A-3. The Idler Gear swings over to Supply Reel.

10A-4. Changes the mechanism position to 9(PLAY POSITION). /10A-5.

10A-6. Rewind the tape for 3.5 sec(SP)/1.8 sec(LP)/1.23 sec(SLP). 10A-7. Changes the mechanism position to 7(STANDBY).

10A-9. The Idler Gear swings over to Takeup Reel.

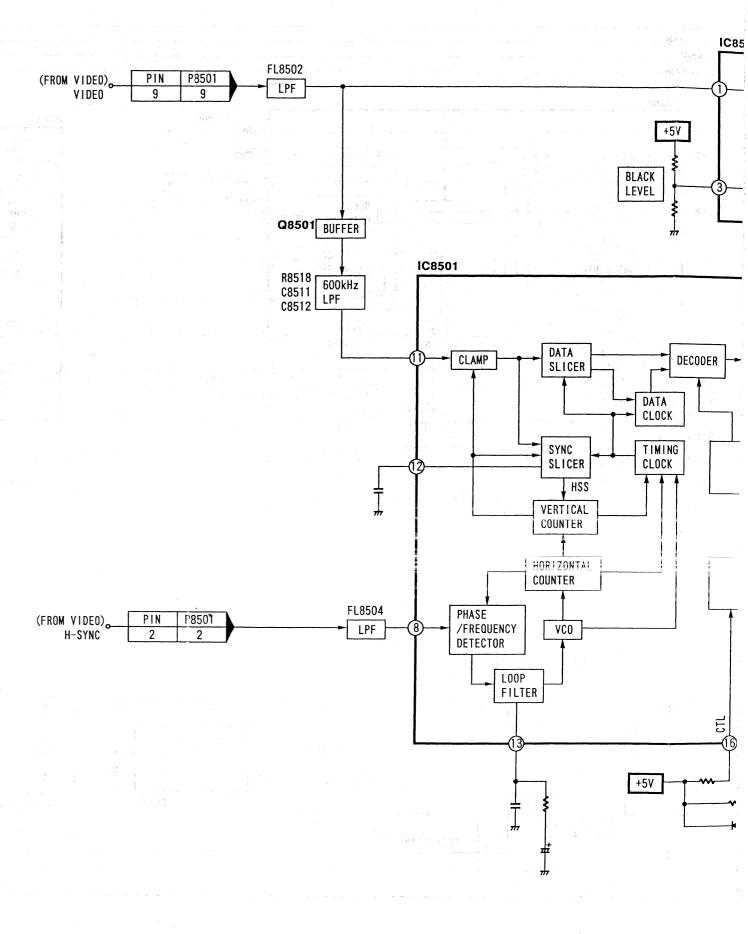
10A-10. Changes the mechanism position to 9(PLAY POSITION).

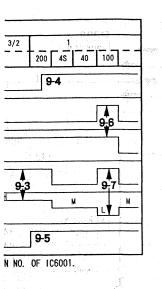
/10A-11. 10A-12. Playback the tape for 1.2 seconds to adjust add-on

recording portion. 10B. REC PAUSE TO REC

10B-1. The Capstan Motor starts rotation in forward direction for playback. (The video recording will be activated with the Video Delay Rec(H) signal.)

CCV(CLOSED CAPTION VIDEO DECODER) BLOCK DIAGRAM



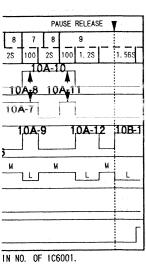


osition(1).
Reel.
direction to takeup a tape

direction to takeup a tap

n 1, the Cylinder stops.

ly Reel.



on to 7(STANDBY).

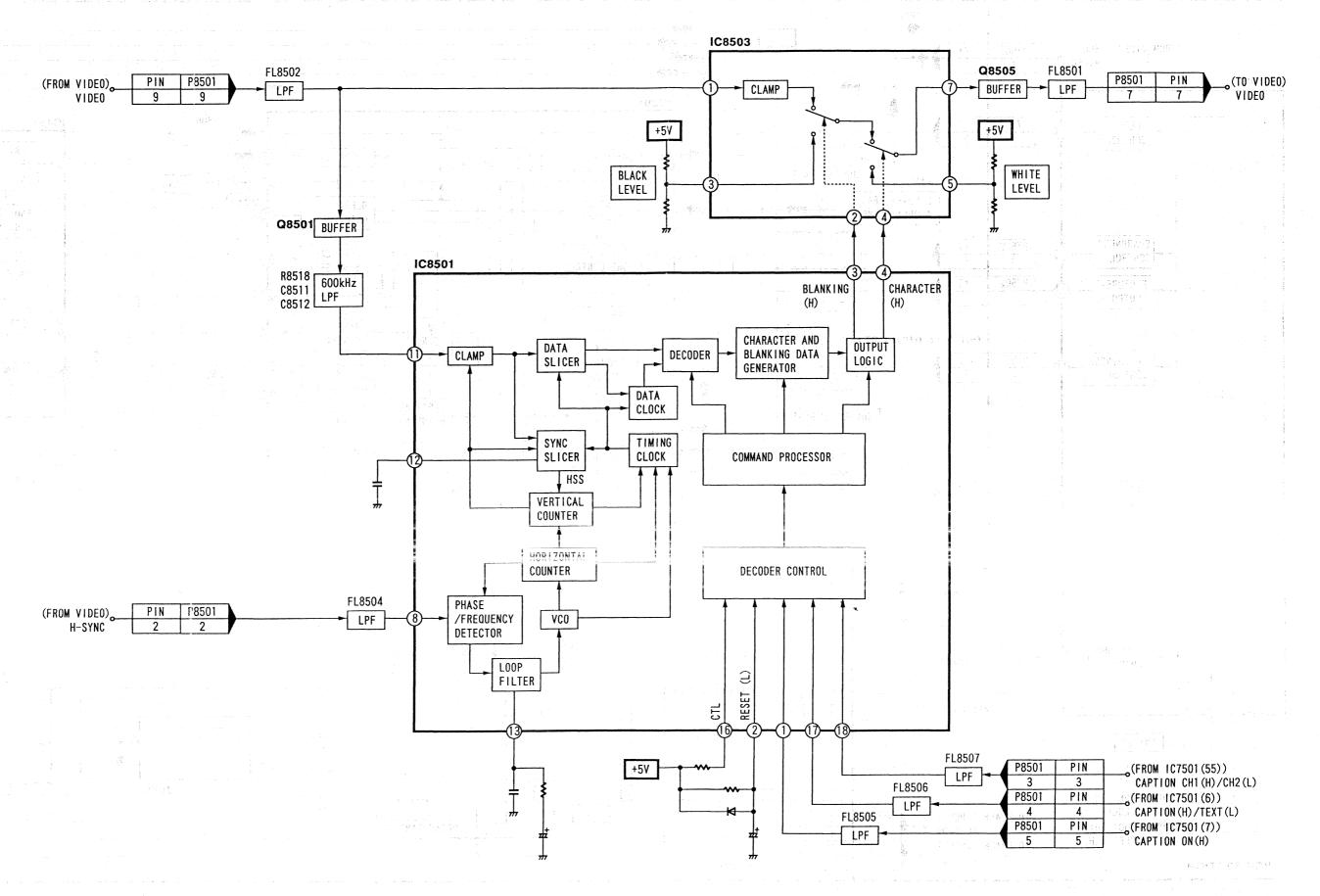
o Supply Reel. on to 9(PLAY POSITION).

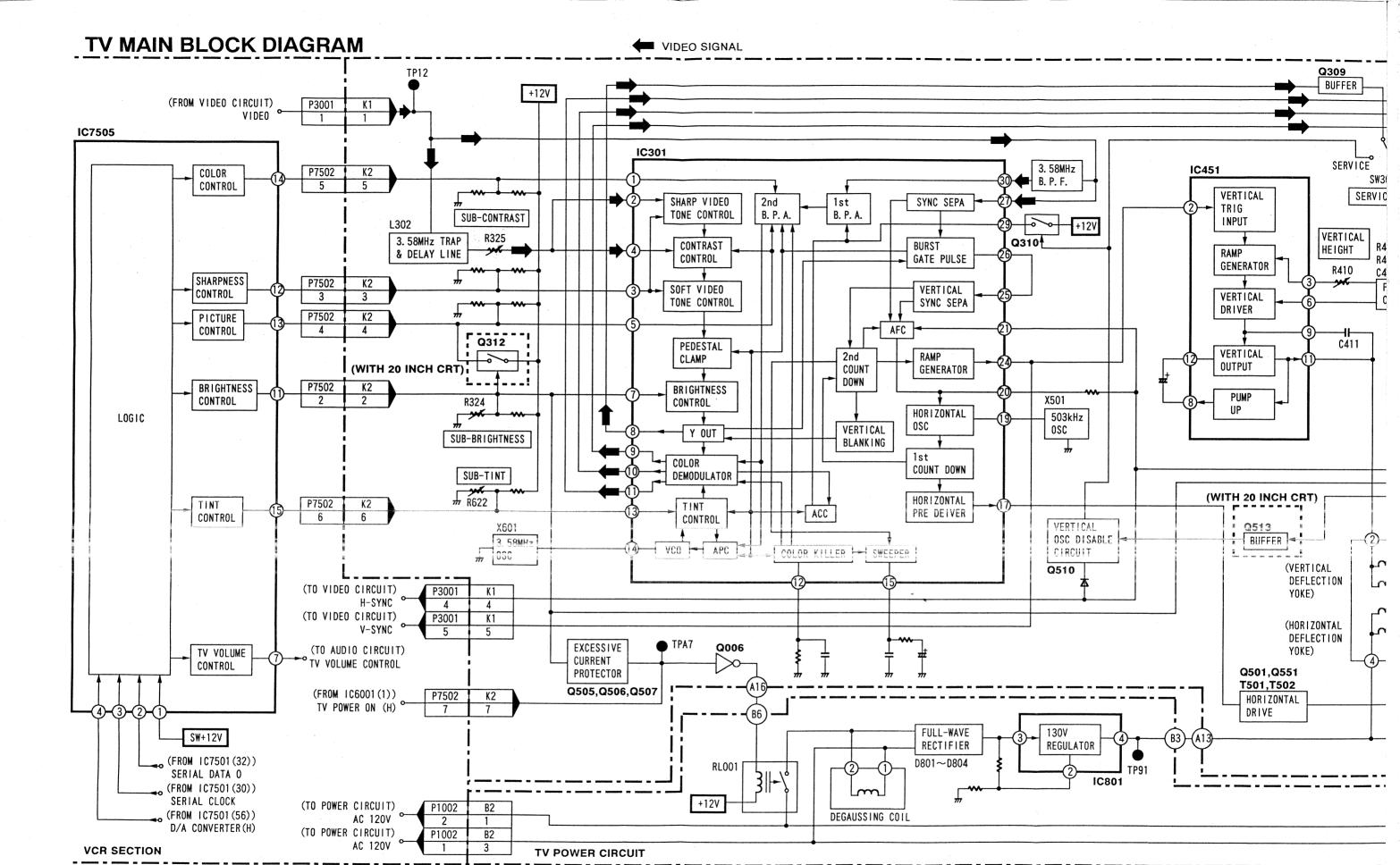
SP)/1.8 sec(LP)/1.23 sec(SLP). on to 7(STANDBY).

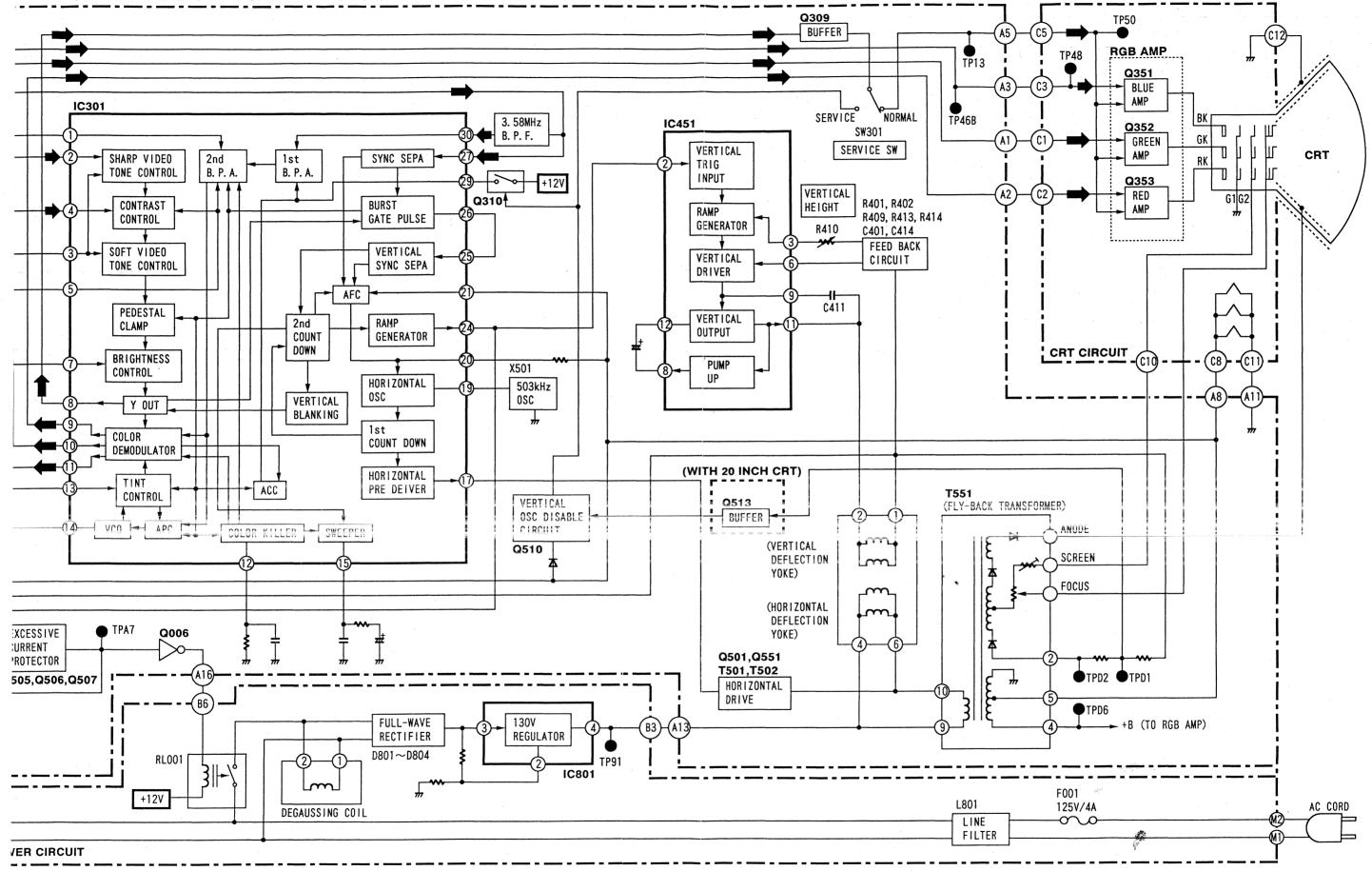
o Takeup Reel. ion to 9(PLAY POSITION).

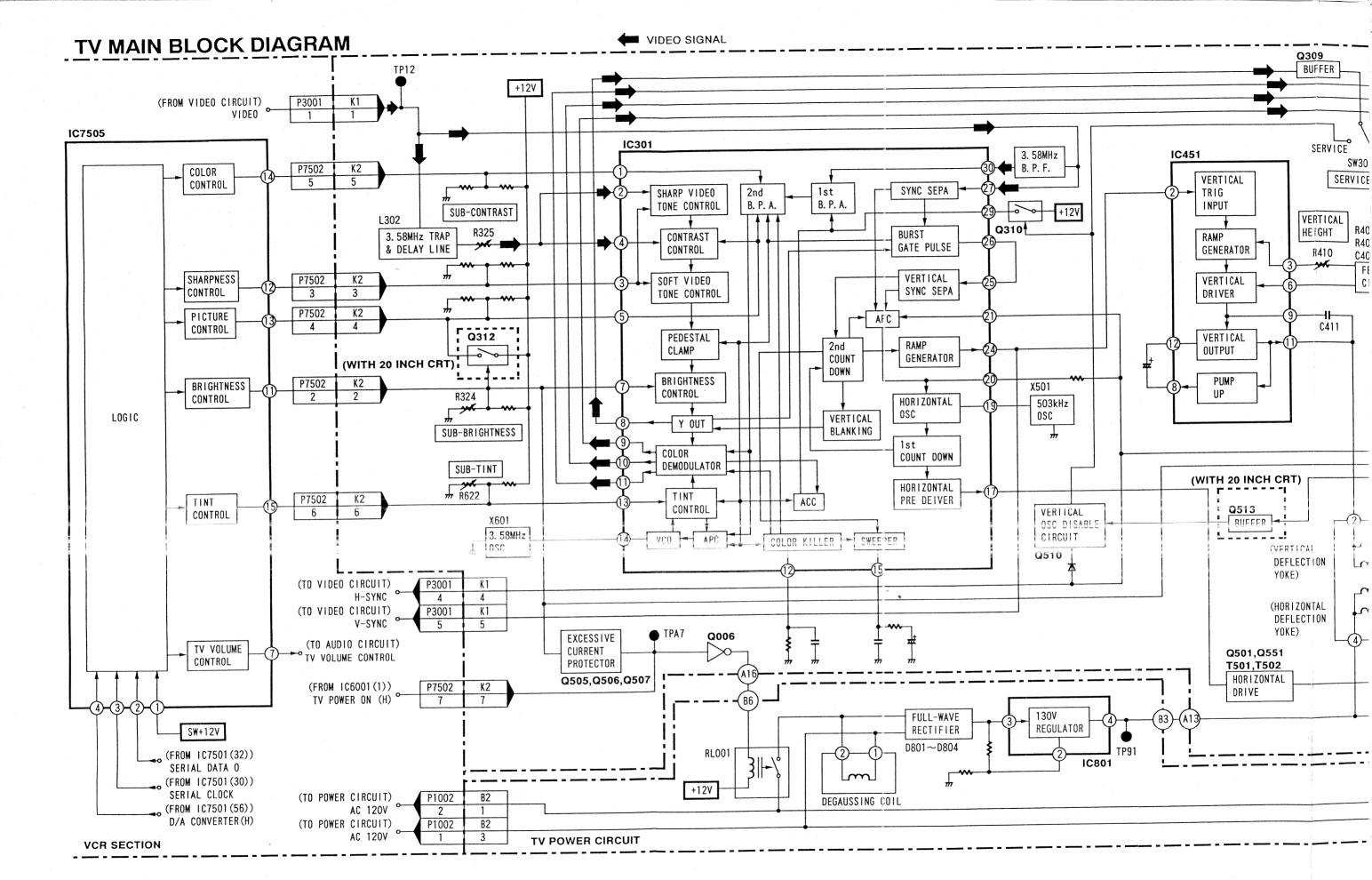
econds to adjust add-on

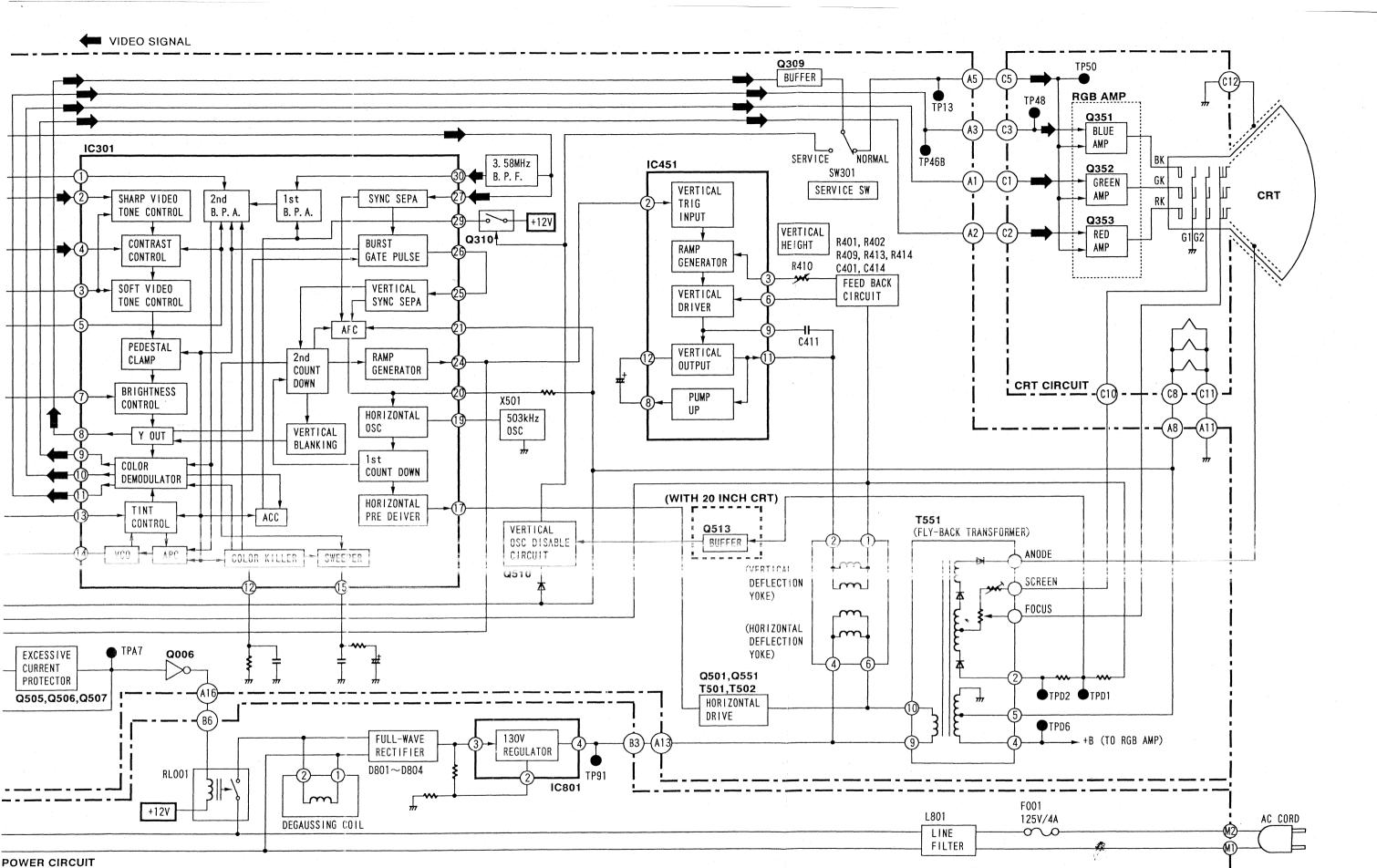
ation in forward direction for ng will be activated with the











TIMER/OPERATION BLOCK DIAGRAM

